

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: P252464

Luminaire Tested: **LE_6B15D010 EC6B10209727 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252464
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 EC6B10209727 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1111.3 lumens
Efficiency: N/A
Efficacy: 77.2 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

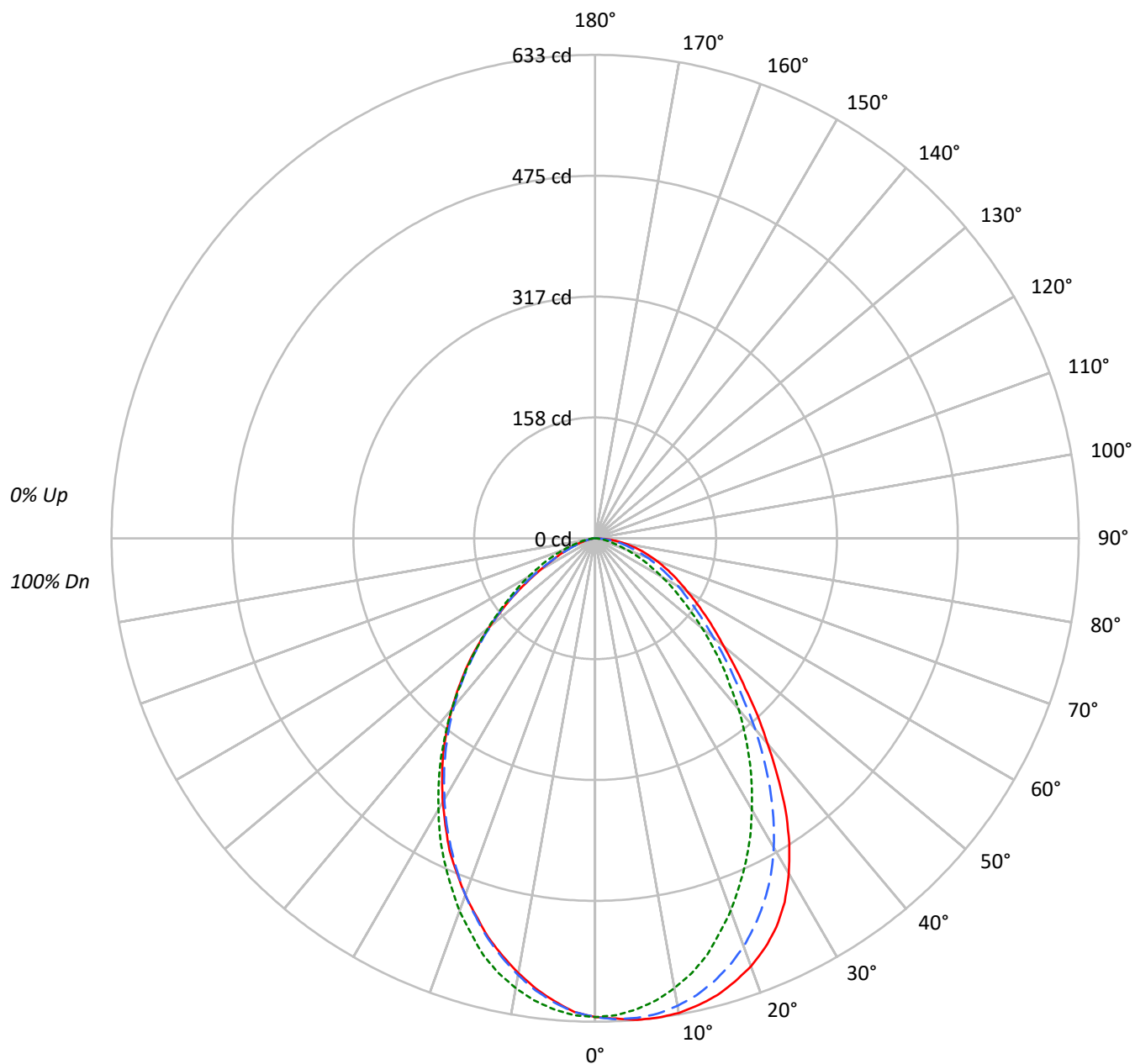
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	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			100
1	111	107	103	100	108	105	101	99		100	98	96			97	95	93			88
2	103	96	90	85	100	94	89	84		90	86	82			87	84	80			77
3	95	86	79	73	93	84	78	73		81	76	71			79	74	70			67
4	88	78	70	64	86	76	69	64		74	68	63			72	66	62			59
5	82	70	62	57	80	69	62	56		67	61	56			65	60	55			53
6	76	64	56	51	74	63	56	50		62	55	50			60	54	50			47
7	71	59	51	46	69	58	51	45		57	50	45			55	49	45			43
8	67	54	47	41	65	54	46	41		52	46	41			51	45	41			39
9	63	50	43	38	61	50	43	38		49	42	37			48	42	37			35
10	59	47	39	35	58	46	39	35		45	39	34			44	38	34			33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	40899	40899	40899
5°	41455	40545	39857
10°	41815	39622	38297
15°	41815	38168	36527
20°	41407	36033	34512
25°	40427	33603	32465
30°	38179	30894	30043
35°	34605	28019	27668
40°	29885	24911	24834
45°	25631	21691	21857
50°	22268	18564	18290
55°	20007	15651	14662
60°	18189	13179	10804
65°	17074	10883	7935
70°	16290	8469	5818
75°	15603	6151	3932
80°	14690	4283	2630
85°	13025	2620	1347



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.6	5.3
10°-20°	160.6	14.5
20°-30°	223.0	20.1
30°-40°	231.0	20.8
40°-50°	189.8	17.1
50°-60°	130.4	11.7
60°-70°	75.0	6.7
70°-80°	34.5	3.1
80°-90°	8.4	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°	442.2	39.8
0°-40°	673.2	60.6
0°-60°	993.4	89.4
0°-90°	1111.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1111.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	627	627	627	627	627	
5°	633	630	619	610	609	60
15°	619	601	565	542	541	174
25°	562	524	467	447	451	257
35°	434	399	352	341	347	269
45°	278	257	235	232	237	216
55°	176	159	138	130	129	158
65°	111	97	70	50	51	110
75°	62	49	24	16	16	65
85°	17	12	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°	626.9	626.9	626.9	626.9	626.9	626.9	626.9	626.9	626.9	626.9	626.9
2.5°	629.5	634.8	631.2	630.4	632.1	632.1	632.1	629.5	631.2	628.6	630.4
5°	633.0	637.4	633.9	632.1	633.9	634.8	632.1	630.4	633.0	629.5	630.4
7.5°	633.0	637.4	633.9	633.0	633.9	633.9	633.0	629.5	631.2	627.8	627.8
10°	631.2	634.8	631.2	629.5	630.4	629.5	629.5	625.1	626.0	621.6	621.6
12.5°	626.0	630.4	626.0	624.2	624.2	624.2	621.6	618.2	619.1	613.9	613.0
15°	619.1	622.5	618.2	616.5	616.5	615.6	613.9	608.6	608.6	603.4	600.8
17.5°	608.6	612.1	608.6	606.0	605.1	603.4	601.6	596.4	594.8	588.6	586.0
20°	596.4	599.0	595.6	593.0	591.2	589.5	586.0	580.8	579.0	572.9	568.6
22.5°	580.8	584.2	579.0	576.4	574.6	572.0	568.6	563.4	560.8	552.9	547.6
25°	561.6	563.4	559.0	556.4	552.9	551.1	548.5	541.6	539.0	530.2	524.1
27.5°	537.2	539.0	533.8	532.0	527.6	525.9	522.4	516.4	512.9	504.1	498.0
30°	506.8	508.5	505.0	502.4	498.9	495.4	492.9	486.8	481.5	472.8	467.6
32.5°	472.8	475.4	471.9	468.5	462.4	463.2	458.9	452.8	448.4	440.6	434.5
35°	434.5	436.2	431.9	431.0	427.5	424.0	419.6	415.4	412.8	404.0	398.8
37.5°	391.9	396.1	391.9	388.4	386.6	384.0	381.4	375.2	373.5	368.2	361.4
40°	350.9	353.5	350.9	347.4	344.8	344.8	341.4	337.9	333.5	328.2	325.6
42.5°	314.4	312.6	311.8	310.0	306.5	305.6	304.8	300.4	297.8	292.5	288.2
45°	277.8	278.6	276.9	276.0	273.4	271.6	269.9	266.4	265.6	260.4	256.9
47.5°	247.2	246.4	244.6	244.6	242.9	241.1	239.5	236.9	236.0	231.6	228.1
50°	219.4	220.2	219.4	218.5	215.9	215.1	213.4	211.6	209.9	205.5	202.0
52.5°	196.8	195.9	195.0	195.0	192.4	191.5	189.9	188.1	186.4	182.0	179.4
55°	175.9	175.9	175.0	174.1	171.5	170.6	169.8	168.0	165.4	162.0	159.4
57.5°	156.8	156.8	155.9	155.0	153.2	153.2	151.5	149.8	148.0	144.5	141.0
60°	139.4	140.1	139.4	138.5	136.8	136.8	135.9	133.2	132.4	128.0	125.4
62.5°	124.5	124.5	124.5	123.6	122.8	121.0	121.0	118.4	116.6	114.1	110.6
65°	110.6	110.6	110.6	109.8	108.0	107.1	106.2	104.5	102.8	100.1	96.6
67.5°	97.5	97.5	97.5	96.6	94.9	94.0	93.1	92.2	89.6	87.1	83.6
70°	85.4	85.4	84.5	83.6	82.8	81.9	81.0	79.2	77.5	74.0	71.4
72.5°	73.1	73.1	73.1	71.4	70.5	70.5	68.8	67.9	66.1	62.8	60.1
75°	61.9	61.0	61.0	60.1	59.2	58.4	57.5	56.6	54.0	52.2	48.8
77.5°	50.5	50.5	49.6	48.8	48.8	47.9	47.0	45.2	44.4	41.8	39.1
80°	39.1	39.1	39.1	39.1	38.2	37.5	37.5	35.8	34.9	32.2	30.5
82.5°	29.6	28.8	28.8	28.8	27.9	27.0	27.0	26.1	25.2	23.5	21.8
85°	17.4	16.5	16.5	16.5	15.6	15.6	14.8	14.8	13.9	12.2	12.2
87.5°	5.2	5.2	6.1	6.1	5.2	5.2	5.2	5.2	5.2	4.4	4.4
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°	626.9	626.9	626.9	626.9	626.9	626.9	626.9	626.9	626.9	626.9	626.9
2.5°	628.6	631.2	627.8	626.9	630.4	628.6	627.8	626.0	626.9	625.1	622.5
5°	627.8	631.2	626.9	624.2	628.6	626.0	624.2	622.5	622.5	619.1	617.4
7.5°	625.1	626.9	622.5	620.0	622.5	620.0	618.2	615.6	614.8	610.4	607.8
10°	618.2	620.0	614.8	611.2	613.9	610.4	607.8	605.1	603.4	598.1	594.8
12.5°	608.6	609.5	603.4	599.0	600.8	598.1	593.9	590.4	588.6	583.4	579.0
15°	595.6	596.4	589.5	583.4	585.1	581.6	576.4	572.9	570.4	565.1	559.0
17.5°	579.9	579.0	571.1	565.1	566.0	561.6	556.4	551.1	547.6	541.6	537.2
20°	562.5	559.9	551.1	544.2	545.1	539.9	533.8	528.5	524.1	519.0	512.9
22.5°	540.8	537.2	529.4	520.6	521.5	517.2	508.5	504.1	499.8	492.9	487.6
25°	517.2	512.0	504.1	495.4	495.4	490.2	483.2	478.0	473.6	466.8	460.6
27.5°	489.4	486.8	476.2	469.2	468.5	463.2	457.1	451.0	445.8	439.8	433.6
30°	458.9	454.5	446.6	438.9	437.1	432.8	426.6	419.6	416.2	410.1	404.9
32.5°	426.6	422.2	413.6	405.8	404.9	401.4	396.1	389.2	385.8	381.4	377.9
35°	390.1	388.4	379.6	373.5	373.5	370.0	364.9	358.8	356.1	351.8	347.4
37.5°	355.2	352.6	344.8	339.6	339.6	335.2	330.0	327.4	324.8	321.2	318.6
40°	318.6	317.0	310.9	305.6	306.5	303.0	299.5	296.0	294.2	292.5	290.0
42.5°	284.8	283.0	278.6	274.2	274.2	271.6	268.1	265.6	263.9	261.2	260.4
45°	254.2	251.6	248.1	243.8	243.8	241.1	239.5	237.8	236.9	235.1	232.5
47.5°	224.6	222.9	219.4	215.1	215.1	215.1	211.6	209.0	209.0	207.2	206.4
50°	199.4	196.8	194.1	190.6	190.6	189.0	186.4	183.8	183.8	182.9	181.1
52.5°	175.9	174.1	170.6	167.1	167.1	165.4	162.9	162.0	161.1	158.5	157.6
55°	155.9	154.1	151.5	147.1	146.2	145.4	142.8	141.0	140.1	137.6	137.6
57.5°	137.6	135.9	131.5	128.9	128.0	126.2	123.6	121.9	121.0	119.2	117.5
60°	121.9	119.2	115.8	112.4	111.5	109.8	107.1	105.4	104.5	101.0	99.2
62.5°	107.1	104.5	101.0	97.5	96.6	94.9	91.4	89.6	88.0	84.5	82.8
65°	93.1	90.5	87.1	83.6	81.9	81.0	77.5	74.9	73.1	70.5	67.0
67.5°	80.1	77.5	74.0	69.6	69.6	67.0	64.4	61.9	59.2	56.6	54.0
70°	67.9	65.2	61.9	58.4	57.5	55.8	53.1	49.6	47.9	44.4	41.8
72.5°	56.6	54.0	50.5	47.0	46.1	44.4	41.8	38.2	35.8	33.1	30.5
75°	46.1	43.5	40.0	37.5	36.6	34.9	32.2	28.8	26.1	24.4	21.8
77.5°	36.6	34.0	31.4	28.8	27.9	26.1	23.5	21.8	19.1	17.4	14.8
80°	27.9	26.1	23.5	21.8	20.9	19.1	17.4	14.8	13.0	11.4	10.5
82.5°	20.0	18.2	16.5	13.9	13.9	12.2	11.4	9.6	7.9	7.0	6.1
85°	11.4	9.6	8.8	7.9	7.0	7.0	6.1	5.2	4.4	3.5	3.5
87.5°	3.5	3.5	2.6	2.6	2.6	2.6	1.8	1.8	1.8	1.8	1.8
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°	626.9	626.9	626.9	626.9	626.9	626.9	626.9	626.9	626.9	626.9	626.9
2.5°	622.5	623.4	621.6	623.4	621.6	622.5	620.9	622.5	620.9	622.5	619.1
5°	616.5	616.5	613.9	615.6	613.9	614.8	611.2	612.1	610.4	612.1	608.6
7.5°	606.0	606.9	602.5	604.2	601.6	601.6	599.0	599.9	597.2	598.1	595.6
10°	593.9	593.0	588.6	590.4	586.9	586.9	584.2	584.2	580.8	581.6	578.1
12.5°	576.4	575.5	570.4	572.0	568.6	568.6	566.0	566.0	562.5	564.2	560.8
15°	556.4	555.5	550.2	551.1	547.6	547.6	544.2	545.1	542.5	544.2	540.8
17.5°	533.8	532.9	527.6	528.5	524.1	525.0	522.4	521.5	519.8	520.6	518.1
20°	510.2	508.5	503.2	504.1	502.4	499.8	498.0	498.9	497.1	498.9	496.2
22.5°	485.9	482.4	478.0	478.0	476.2	476.2	473.6	475.4	471.9	474.5	472.8
25°	458.0	455.4	451.9	453.6	450.1	450.1	447.5	448.4	446.6	448.4	446.6
27.5°	431.0	429.2	424.0	425.8	423.1	424.0	421.4	422.2	421.4	423.1	421.4
30°	402.2	401.4	397.9	397.9	397.0	396.1	395.2	395.2	394.4	397.0	395.2
32.5°	375.2	372.6	369.1	371.8	367.5	370.0	368.2	370.0	368.2	370.0	369.1
35°	347.4	346.5	342.2	343.0	342.2	342.2	341.4	341.4	341.4	343.9	343.9
37.5°	317.8	317.0	314.4	315.2	313.5	312.6	312.6	314.4	314.4	316.1	316.1
40°	289.1	290.0	287.4	287.4	286.5	286.5	286.5	288.2	287.4	289.1	288.2
42.5°	260.4	260.4	257.8	258.6	257.8	258.6	258.6	260.4	260.4	261.2	260.4
45°	233.4	233.4	232.5	233.4	231.6	232.5	231.6	233.4	232.5	233.4	233.4
47.5°	206.4	206.4	206.4	205.5	205.5	205.5	205.5	205.5	204.6	206.4	205.5
50°	181.1	182.0	181.1	181.1	180.2	181.1	180.2	180.2	178.5	179.4	179.4
52.5°	158.5	158.5	156.8	156.8	156.8	155.9	155.9	155.9	155.0	155.0	153.2
55°	136.8	136.8	135.0	135.0	134.1	133.2	132.4	132.4	129.8	129.8	127.1
57.5°	116.6	115.8	113.2	113.2	111.5	110.6	109.8	108.9	107.1	105.4	104.5
60°	98.4	96.6	94.9	94.0	92.2	90.5	88.8	87.1	85.4	84.5	83.6
62.5°	81.0	78.4	76.6	75.8	74.0	71.4	69.6	67.9	66.1	65.2	63.5
65°	65.2	62.8	60.1	59.2	57.5	55.8	53.1	51.4	49.6	48.8	48.8
67.5°	51.4	48.8	45.2	45.2	43.5	41.8	40.0	38.2	37.5	38.2	38.2
70°	38.2	36.6	34.0	33.1	31.4	29.6	28.8	28.8	28.8	29.6	28.8
72.5°	28.8	26.1	24.4	23.5	22.6	21.8	21.8	21.8	20.9	21.8	21.8
75°	20.0	18.2	16.5	16.5	15.6	15.6	15.6	15.6	15.6	15.6	15.6
77.5°	13.9	12.2	11.4	11.4	11.4	10.5	10.5	10.5	10.5	10.5	10.5
80°	8.8	8.8	7.9	7.9	7.0	7.0	7.0	7.0	7.0	7.0	7.0
82.5°	5.2	5.2	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
85°	2.6	2.6	2.6	2.6	2.6	1.8	1.8	1.8	1.8	1.8	1.8
87.5°	0.9	0.9	0.9	0.9	0.9	1.8	1.8	1.8	1.8	1.8	1.8
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°	626.9	626.9	626.9	626.9	626.9	626.9	626.9	626.9
2.5°	619.1	621.6	618.2	620.9	620.0	619.1	617.4	620.9
5°	608.6	609.5	606.0	609.5	608.6	606.9	605.1	608.6
7.5°	593.9	596.4	592.1	595.6	594.8	593.0	591.2	594.8
10°	577.2	579.9	576.4	579.0	579.0	577.2	574.6	578.1
12.5°	559.0	560.8	557.2	560.8	559.9	558.1	557.2	559.9
15°	539.0	541.6	538.1	540.8	539.9	539.0	538.1	540.8
17.5°	517.2	519.8	517.2	519.8	519.8	517.2	516.4	518.1
20°	495.4	497.1	494.5	497.1	496.2	496.2	494.5	497.1
22.5°	471.0	473.6	471.9	473.6	472.8	472.8	471.9	473.6
25°	446.6	449.2	446.6	449.2	448.4	448.4	446.6	451.0
27.5°	422.2	424.0	421.4	424.9	424.0	422.2	423.1	424.0
30°	396.1	397.9	396.1	398.8	398.8	398.8	397.0	398.8
32.5°	370.0	372.6	370.0	372.6	371.8	371.8	370.9	372.6
35°	343.9	344.8	343.0	345.6	345.6	346.5	344.8	347.4
37.5°	317.0	317.8	317.0	317.8	319.5	317.0	318.6	319.5
40°	289.1	290.9	290.0	290.9	290.9	291.6	290.9	291.6
42.5°	261.2	263.0	261.2	263.9	263.0	263.0	263.9	263.9
45°	232.5	235.1	233.4	235.1	236.0	235.1	235.1	236.9
47.5°	205.5	207.2	206.4	207.2	207.2	207.2	207.2	209.0
50°	178.5	179.4	179.4	180.2	180.2	181.1	179.4	180.2
52.5°	151.5	153.2	153.2	153.2	152.4	153.2	153.2	153.2
55°	127.1	128.0	126.2	128.0	128.0	127.1	127.1	128.9
57.5°	103.6	103.6	103.6	103.6	103.6	102.8	103.6	103.6
60°	81.9	82.8	81.9	81.9	81.9	81.9	81.0	82.8
62.5°	63.5	63.5	62.8	63.5	63.5	63.5	64.4	64.4
65°	49.6	50.5	49.6	50.5	50.5	50.5	50.5	51.4
67.5°	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
70°	29.6	29.6	29.6	30.5	29.6	29.6	29.6	30.5
72.5°	21.8	21.8	21.8	21.8	21.8	21.8	22.6	22.6
75°	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6
77.5°	10.5	10.5	10.5	11.4	10.5	11.4	10.5	10.5
80°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
82.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
85°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
87.5°	1.8	1.8	1.8	1.8	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)