

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: P252444

Luminaire Tested: **LE_6B10D010 EC6B10208050 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252444
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_6B10D010 EC6B10208050 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1168.8 lumens
Efficiency: N/A
Efficacy: 116.9 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

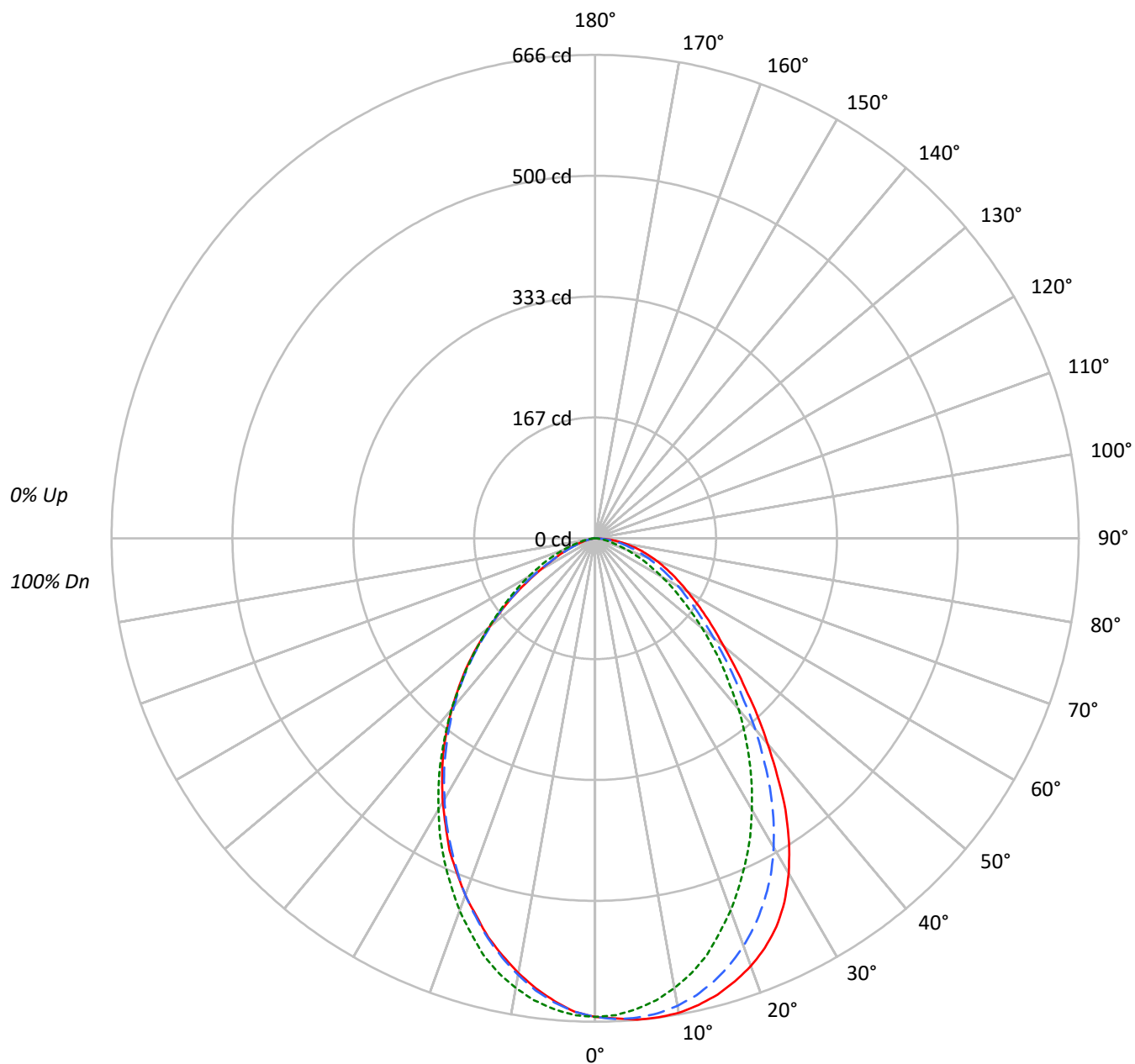
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10	50	30	10
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°	43020	43020	43020
5°	43603	42640	41920
10°	43981	41676	40285
15°	43977	40147	38418
20°	43545	37894	36304
25°	42514	35337	34150
30°	40153	32499	31595
35°	36397	29468	29102
40°	31426	26214	26129
45°	26950	22808	22983
50°	23425	19508	19244
55°	21043	16470	15412
60°	19116	13857	11352
65°	17938	11439	8336
70°	17129	8927	6104
75°	16385	6453	4159
80°	15479	4471	2780
85°	13773	2695	1422



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.7	5.3
10°-20°	168.9	14.5
20°-30°	234.5	20.1
30°-40°	242.9	20.8
40°-50°	199.6	17.1
50°-60°	137.2	11.7
60°-70°	78.9	6.7
70°-80°	36.3	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°	465.1	39.8
0°-40°	708.0	60.6
0°-60°	1044.8	89.4
0°-90°	1168.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1168.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	659	659	659	659	659	
5°	666	663	651	642	640	63
15°	651	632	594	570	569	183
25°	591	551	491	470	474	270
35°	457	419	370	359	365	283
45°	292	270	247	244	249	228
55°	185	168	145	136	136	166
65°	116	102	74	52	54	116
75°	65	51	26	16	16	69
85°	18	13	4	2	2	21
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°	659.4	659.4	659.4	659.4	659.4	659.4	659.4	659.4	659.4	659.4	659.4
2.5°	662.1	667.6	663.9	663.0	664.9	664.9	664.9	662.1	663.9	661.1	663.0
5°	665.8	670.4	666.6	664.9	666.6	667.6	664.9	663.0	665.8	662.1	663.0
7.5°	665.8	670.4	666.6	665.8	666.6	666.6	665.8	662.1	663.9	660.2	660.2
10°	663.9	667.6	663.9	662.1	663.0	662.1	662.1	657.5	658.4	653.9	653.9
12.5°	658.4	663.0	658.4	656.6	656.6	656.6	653.9	650.2	651.1	645.6	644.8
15°	651.1	654.8	650.2	648.4	648.4	647.5	645.6	640.1	640.1	634.6	631.9
17.5°	640.1	643.8	640.1	637.4	636.5	634.6	632.8	627.2	625.5	619.0	616.2
20°	627.2	630.0	626.4	623.6	621.8	620.0	616.2	610.9	609.0	602.6	598.0
22.5°	610.9	614.5	609.0	606.2	604.4	601.6	598.0	592.5	589.8	581.5	576.0
25°	590.6	592.5	587.9	585.1	581.5	579.6	576.9	569.6	566.9	557.8	551.2
27.5°	565.0	566.9	561.4	559.5	555.0	553.1	549.5	543.0	539.4	530.2	523.9
30°	533.0	534.8	531.1	528.4	524.8	521.1	518.4	511.9	506.4	497.2	491.8
32.5°	497.2	500.0	496.4	492.6	486.2	487.1	482.6	476.2	471.6	463.4	457.0
35°	457.0	458.8	454.2	453.2	449.6	446.0	441.4	436.9	434.1	424.9	419.4
37.5°	412.1	416.6	412.1	408.4	406.6	403.9	401.1	394.8	392.9	387.4	380.0
40°	369.0	371.8	369.0	365.4	362.6	362.6	359.0	355.4	350.8	345.2	342.5
42.5°	330.6	328.8	327.9	326.0	322.4	321.4	320.5	316.0	313.2	307.8	303.1
45°	292.1	293.0	291.2	290.2	287.5	285.8	283.9	280.2	279.2	273.9	270.1
47.5°	260.1	259.1	257.4	257.4	255.5	253.6	251.9	249.1	248.1	243.6	239.9
50°	230.8	231.8	230.8	229.9	227.1	226.2	224.4	222.5	220.8	216.1	212.5
52.5°	207.0	206.0	205.1	205.1	202.4	201.5	199.6	197.8	196.0	191.4	188.6
55°	185.0	185.0	184.1	183.1	180.4	179.5	178.6	176.8	174.0	170.4	167.6
57.5°	164.9	164.9	163.9	163.0	161.1	161.1	159.4	157.5	155.6	152.0	148.4
60°	146.5	147.5	146.5	145.6	143.8	143.8	142.9	140.1	139.2	134.6	131.9
62.5°	131.0	131.0	131.0	130.0	129.1	127.2	127.2	124.5	122.8	120.0	116.2
65°	116.2	116.2	116.2	115.4	113.5	112.6	111.8	109.9	108.0	105.4	101.6
67.5°	102.6	102.6	102.6	101.6	99.9	98.9	98.0	97.1	94.4	91.6	87.9
70°	89.8	89.8	88.9	87.9	87.0	86.1	85.1	83.4	81.5	77.9	75.1
72.5°	76.9	76.9	76.9	75.1	74.1	74.1	72.4	71.4	69.6	65.9	63.2
75°	65.0	64.1	64.1	63.2	62.2	61.4	60.5	59.5	56.8	55.0	51.2
77.5°	53.1	53.1	52.2	51.2	51.2	50.4	49.5	47.6	46.8	44.0	41.2
80°	41.2	41.2	41.2	41.2	40.2	39.4	39.4	37.5	36.6	33.9	32.0
82.5°	31.1	30.2	30.2	30.2	29.2	28.4	28.4	27.5	26.5	24.8	22.9
85°	18.4	17.4	17.4	17.4	16.5	16.5	15.6	15.6	14.6	12.9	12.9
87.5°	5.5	5.5	6.4	6.4	5.5	5.5	5.5	5.5	5.5	4.6	4.6
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°	659.4	659.4	659.4	659.4	659.4	659.4	659.4	659.4	659.4	659.4	659.4
2.5°	661.1	663.9	660.2	659.4	663.0	661.1	660.2	658.4	659.4	657.5	654.8
5°	660.2	663.9	659.4	656.6	661.1	658.4	656.6	654.8	654.8	651.1	649.2
7.5°	657.5	659.4	654.8	652.0	654.8	652.0	650.2	647.5	646.5	642.0	639.2
10°	650.2	652.0	646.5	642.9	645.6	642.0	639.2	636.5	634.6	629.1	625.5
12.5°	640.1	641.0	634.6	630.0	631.9	629.1	624.5	620.9	619.0	613.5	609.0
15°	626.4	627.2	620.0	613.5	615.4	611.8	606.2	602.6	599.9	594.4	587.9
17.5°	609.9	609.0	600.8	594.4	595.2	590.6	585.1	579.6	576.0	569.6	565.0
20°	591.6	588.9	579.6	572.4	573.2	567.8	561.4	555.9	551.2	545.8	539.4
22.5°	568.8	565.0	556.8	547.6	548.5	544.0	534.8	530.2	525.6	518.4	512.9
25°	544.0	538.5	530.2	521.1	521.1	515.6	508.2	502.8	498.1	490.9	484.5
27.5°	514.6	511.9	500.9	493.6	492.6	487.1	480.8	474.4	468.9	462.5	456.0
30°	482.6	478.0	469.8	461.5	459.8	455.1	448.8	441.4	437.8	431.4	425.9
32.5°	448.8	444.1	435.0	426.8	425.9	422.1	416.6	409.4	405.6	401.1	397.5
35°	410.2	408.4	399.2	392.9	392.9	389.2	383.8	377.2	374.5	370.0	365.4
37.5°	373.6	370.9	362.6	357.1	357.1	352.6	347.1	344.4	341.6	337.9	335.1
40°	335.1	333.4	326.9	321.4	322.4	318.6	315.0	311.4	309.5	307.8	305.0
42.5°	299.5	297.6	293.0	288.5	288.5	285.8	282.0	279.2	277.5	274.8	273.9
45°	267.4	264.6	261.0	256.4	256.4	253.6	251.9	250.0	249.1	247.2	244.5
47.5°	236.2	234.4	230.8	226.2	226.2	226.2	222.5	219.8	219.8	218.0	217.0
50°	209.8	207.0	204.2	200.5	200.5	198.8	196.0	193.2	193.2	192.2	190.5
52.5°	185.0	183.1	179.5	175.9	175.9	174.0	171.2	170.4	169.4	166.6	165.8
55°	163.9	162.1	159.4	154.8	153.9	152.9	150.1	148.4	147.5	144.8	144.8
57.5°	144.8	142.9	138.2	135.5	134.6	132.8	130.0	128.2	127.2	125.5	123.6
60°	128.2	125.5	121.8	118.1	117.2	115.4	112.6	110.8	109.9	106.2	104.4
62.5°	112.6	109.9	106.2	102.6	101.6	99.9	96.1	94.4	92.5	88.9	87.0
65°	98.0	95.2	91.6	87.9	86.1	85.1	81.5	78.8	76.9	74.1	70.5
67.5°	84.2	81.5	77.9	73.2	73.2	70.5	67.8	65.0	62.2	59.5	56.8
70°	71.4	68.6	65.0	61.4	60.5	58.6	55.9	52.2	50.4	46.8	44.0
72.5°	59.5	56.8	53.1	49.5	48.5	46.8	44.0	40.2	37.5	34.8	32.0
75°	48.5	45.8	42.1	39.4	38.5	36.6	33.9	30.2	27.5	25.6	22.9
77.5°	38.5	35.8	33.0	30.2	29.2	27.5	24.8	22.9	20.1	18.4	15.6
80°	29.2	27.5	24.8	22.9	22.0	20.1	18.4	15.6	13.8	11.9	11.0
82.5°	21.1	19.2	17.4	14.6	14.6	12.9	11.9	10.1	8.2	7.4	6.4
85°	11.9	10.1	9.1	8.2	7.4	7.4	6.4	5.5	4.6	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°	659.4	659.4	659.4	659.4	659.4	659.4	659.4	659.4	659.4	659.4	659.4
2.5°	654.8	655.6	653.9	655.6	653.9	654.8	653.0	654.8	653.0	654.8	651.1
5°	648.4	648.4	645.6	647.5	645.6	646.5	642.9	643.8	642.0	643.8	640.1
7.5°	637.4	638.2	633.8	635.5	632.8	632.8	630.0	631.0	628.2	629.1	626.4
10°	624.5	623.6	619.0	620.9	617.2	617.2	614.5	614.5	610.9	611.8	608.1
12.5°	606.2	605.4	599.9	601.6	598.0	598.0	595.2	595.2	591.6	593.4	589.8
15°	585.1	584.2	578.8	579.6	576.0	576.0	572.4	573.2	570.5	572.4	568.8
17.5°	561.4	560.5	555.0	555.9	551.2	552.2	549.5	548.5	546.8	547.6	544.9
20°	536.6	534.8	529.2	530.2	528.4	525.6	523.9	524.8	522.9	524.8	522.0
22.5°	511.0	507.4	502.8	502.8	500.9	500.9	498.1	500.0	496.4	499.1	497.2
25°	481.8	479.0	475.2	477.1	473.5	473.5	470.8	471.6	469.8	471.6	469.8
27.5°	453.2	451.5	446.0	447.8	445.0	446.0	443.2	444.1	443.2	445.0	443.2
30°	423.1	422.1	418.5	418.5	417.6	416.6	415.8	415.8	414.9	417.6	415.8
32.5°	394.8	392.0	388.2	391.0	386.5	389.2	387.4	389.2	387.4	389.2	388.2
35°	365.4	364.5	359.9	360.8	359.9	359.9	359.0	359.0	359.0	361.8	361.8
37.5°	334.2	333.4	330.6	331.5	329.6	328.8	328.8	330.6	330.6	332.4	332.4
40°	304.0	305.0	302.2	302.2	301.2	301.2	301.2	303.1	302.2	304.0	303.1
42.5°	273.9	273.9	271.1	272.0	271.1	272.0	272.0	273.9	273.9	274.8	273.9
45°	245.4	245.4	244.5	245.4	243.6	244.5	243.6	245.4	244.5	245.4	245.4
47.5°	217.0	217.0	217.0	216.1	216.1	216.1	216.1	216.1	215.2	217.0	216.1
50°	190.5	191.4	190.5	190.5	189.6	190.5	189.6	189.6	187.8	188.6	188.6
52.5°	166.6	166.6	164.9	164.9	164.9	163.9	163.9	163.9	163.0	163.0	161.1
55°	143.8	143.8	142.0	142.0	141.0	140.1	139.2	139.2	136.5	136.5	133.8
57.5°	122.8	121.8	119.0	119.0	117.2	116.2	115.4	114.5	112.6	110.8	109.9
60°	103.5	101.6	99.9	98.9	97.1	95.2	93.4	91.6	89.8	88.9	87.9
62.5°	85.1	82.4	80.6	79.6	77.9	75.1	73.2	71.4	69.6	68.6	66.9
65°	68.6	65.9	63.2	62.2	60.5	58.6	55.9	54.0	52.2	51.2	51.2
67.5°	54.0	51.2	47.6	47.6	45.8	44.0	42.1	40.2	39.4	40.2	40.2
70°	40.2	38.5	35.8	34.8	33.0	31.1	30.2	30.2	30.2	31.1	30.2
72.5°	30.2	27.5	25.6	24.8	23.8	22.9	22.9	22.9	22.0	22.9	22.9
75°	21.1	19.2	17.4	17.4	16.5	16.5	16.5	16.5	16.5	16.5	16.5
77.5°	14.6	12.9	11.9	11.9	11.9	11.0	11.0	11.0	11.0	11.0	11.0
80°	9.1	9.1	8.2	8.2	7.4	7.4	7.4	7.4	7.4	7.4	7.4
82.5°	5.5	5.5	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
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	1.9	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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	659.4	659.4	659.4	659.4	659.4	659.4	659.4	659.4
2.5°	651.1	653.9	650.2	653.0	652.0	651.1	649.2	653.0
5°	640.1	641.0	637.4	641.0	640.1	638.2	636.5	640.1
7.5°	624.5	627.2	622.8	626.4	625.5	623.6	621.8	625.5
10°	607.1	609.9	606.2	609.0	609.0	607.1	604.4	608.1
12.5°	587.9	589.8	586.1	589.8	588.9	587.0	586.1	588.9
15°	566.9	569.6	566.0	568.8	567.8	566.9	566.0	568.8
17.5°	544.0	546.8	544.0	546.8	546.8	544.0	543.0	544.9
20°	521.1	522.9	520.1	522.9	522.0	522.0	520.1	522.9
22.5°	495.4	498.1	496.4	498.1	497.2	497.2	496.4	498.1
25°	469.8	472.5	469.8	472.5	471.6	471.6	469.8	474.4
27.5°	444.1	446.0	443.2	446.9	446.0	444.1	445.0	446.0
30°	416.6	418.5	416.6	419.4	419.4	419.4	417.6	419.4
32.5°	389.2	392.0	389.2	392.0	391.0	391.0	390.1	392.0
35°	361.8	362.6	360.8	363.5	363.5	364.5	362.6	365.4
37.5°	333.4	334.2	333.4	334.2	336.1	333.4	335.1	336.1
40°	304.0	305.9	305.0	305.9	305.9	306.8	305.9	306.8
42.5°	274.8	276.5	274.8	277.5	276.5	276.5	277.5	277.5
45°	244.5	247.2	245.4	247.2	248.1	247.2	247.2	249.1
47.5°	216.1	218.0	217.0	218.0	218.0	218.0	218.0	219.8
50°	187.8	188.6	188.6	189.6	189.6	190.5	188.6	189.6
52.5°	159.4	161.1	161.1	161.1	160.2	161.1	161.1	161.1
55°	133.8	134.6	132.8	134.6	134.6	133.8	133.8	135.5
57.5°	109.0	109.0	109.0	109.0	109.0	108.0	109.0	109.0
60°	86.1	87.0	86.1	86.1	86.1	86.1	85.1	87.0
62.5°	66.9	66.9	65.9	66.9	66.9	66.9	67.8	67.8
65°	52.2	53.1	52.2	53.1	53.1	53.1	53.1	54.0
67.5°	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2
70°	31.1	31.1	31.1	32.0	31.1	31.1	31.1	32.0
72.5°	22.9	22.9	22.9	22.9	22.9	22.9	23.8	23.8
75°	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
77.5°	11.0	11.0	11.0	11.9	11.0	11.9	11.0	11.0
80°	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
82.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
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)