

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: P252450

Luminaire Tested: **LE_6B10D010 EC6B10209050 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252450
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 EC6B10209050 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 982.5 lumens
Efficiency: N/A
Efficacy: 98.2 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

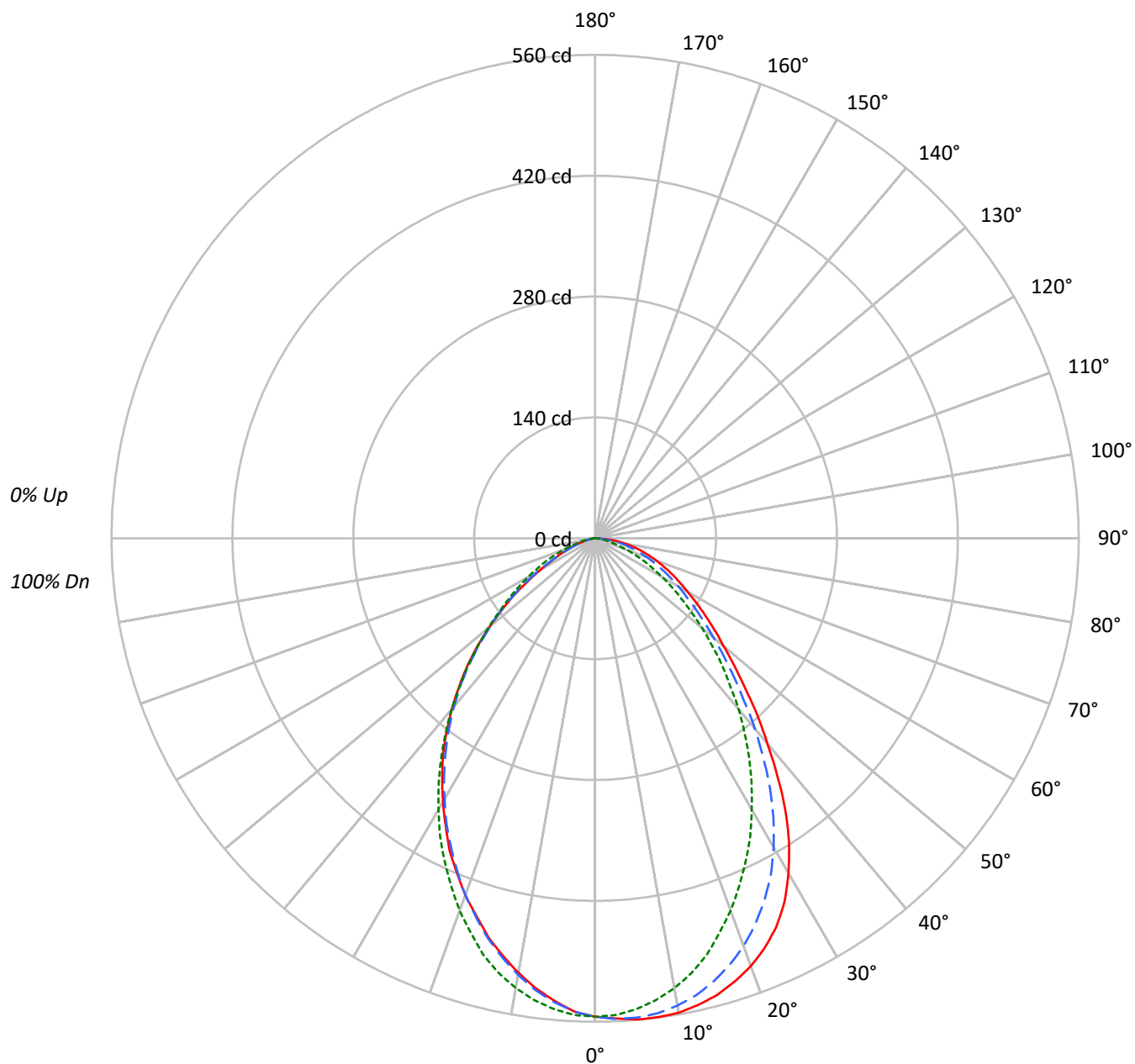
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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	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°	36156	36156	36156
5°	36648	35849	35240
10°	36972	35038	33859
15°	36973	33744	32292
20°	36616	31860	30520
25°	35741	29701	28708
30°	33749	27316	26563
35°	30591	24769	24459
40°	26418	22024	21964
45°	22660	19182	19320
50°	19690	16402	16179
55°	17687	13831	12955
60°	16062	11639	9538
65°	15098	9633	7009
70°	14402	7477	5150
75°	13763	5420	3504
80°	12999	3757	2292
85°	11528	2321	1123



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.8	5.3
10°-20°	142.0	14.5
20°-30°	197.1	20.1
30°-40°	204.2	20.8
40°-50°	167.8	17.1
50°-60°	115.3	11.7
60°-70°	66.3	6.7
70°-80°	30.5	3.1
80°-90°	7.4	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°	391.0	39.8
0°-40°	595.2	60.6
0°-60°	878.3	89.4
0°-90°	982.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	982.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	554	554	554	554	554	
5°	560	557	547	540	538	53
15°	547	531	500	480	478	154
25°	496	463	413	395	399	227
35°	384	353	311	302	307	238
45°	246	227	208	206	209	191
55°	156	141	122	115	114	140
65°	98	86	62	44	45	97
75°	55	43	22	14	14	58
85°	15	11	3	2	2	17
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°	554.2	554.2	554.2	554.2	554.2	554.2	554.2	554.2	554.2	554.2	554.2
2.5°	556.6	561.2	558.1	557.4	558.9	558.9	558.9	556.6	558.1	555.9	557.4
5°	559.6	563.5	560.4	558.9	560.4	561.2	558.9	557.4	559.6	556.6	557.4
7.5°	559.6	563.5	560.4	559.6	560.4	560.4	559.6	556.6	558.1	555.0	555.0
10°	558.1	561.2	558.1	556.6	557.4	556.6	556.6	552.8	553.5	549.6	549.6
12.5°	553.5	557.4	553.5	552.0	552.0	552.0	549.6	546.6	547.4	542.8	542.0
15°	547.4	550.4	546.6	545.0	545.0	544.2	542.8	538.1	538.1	533.5	531.1
17.5°	538.1	541.2	538.1	535.8	535.0	533.5	532.0	527.4	525.8	520.4	518.1
20°	527.4	529.6	526.5	524.2	522.8	521.1	518.1	513.5	511.9	506.5	502.8
22.5°	513.5	516.5	511.9	509.6	508.1	505.8	502.8	498.1	495.8	488.9	484.2
25°	496.5	498.1	494.2	491.9	488.9	487.2	485.0	478.9	476.5	468.9	463.4
27.5°	475.0	476.5	471.9	470.4	466.5	465.0	461.9	456.5	453.4	445.8	440.4
30°	448.0	449.6	446.5	444.2	441.1	438.0	435.8	430.4	425.8	418.0	413.4
32.5°	418.0	420.4	417.2	414.1	408.8	409.5	405.8	400.2	396.5	389.5	384.1
35°	384.1	385.6	381.9	381.1	378.0	374.9	371.0	367.2	364.9	357.2	352.6
37.5°	346.4	350.2	346.4	343.4	341.8	339.5	337.1	331.8	330.2	325.6	319.5
40°	310.2	312.5	310.2	307.1	304.9	304.9	301.8	298.8	294.9	290.2	287.9
42.5°	277.9	276.4	275.6	274.0	271.0	270.2	269.5	265.6	263.2	258.6	254.9
45°	245.6	246.4	244.8	244.0	241.8	240.1	238.6	235.6	234.8	230.1	227.1
47.5°	218.6	217.9	216.4	216.4	214.8	213.2	211.8	209.4	208.6	204.8	201.8
50°	194.0	194.8	194.0	193.2	190.9	190.1	188.6	187.1	185.5	181.6	178.6
52.5°	174.0	173.2	172.5	172.5	170.1	169.4	167.9	166.2	164.8	160.9	158.6
55°	155.5	155.5	154.8	154.0	151.6	150.9	150.1	148.6	146.2	143.2	140.9
57.5°	138.6	138.6	137.8	137.0	135.5	135.5	134.0	132.4	130.9	127.8	124.8
60°	123.1	124.0	123.1	122.4	120.9	120.9	120.1	117.8	117.0	113.1	110.9
62.5°	110.1	110.1	110.1	109.4	108.5	107.0	107.0	104.8	103.1	100.9	97.8
65°	97.8	97.8	97.8	97.0	95.5	94.8	93.9	92.4	90.9	88.5	85.5
67.5°	86.2	86.2	86.2	85.5	83.9	83.1	82.4	81.6	79.2	77.0	73.9
70°	75.5	75.5	74.6	73.9	73.1	72.4	71.6	70.0	68.5	65.4	63.1
72.5°	64.6	64.6	64.6	63.1	62.4	62.4	60.9	60.0	58.5	55.4	53.1
75°	54.6	53.9	53.9	53.1	52.4	51.6	50.8	50.0	47.8	46.2	43.1
77.5°	44.6	44.6	43.9	43.1	43.1	42.4	41.6	40.0	39.2	37.0	34.6
80°	34.6	34.6	34.6	34.6	33.9	33.1	33.1	31.6	30.8	28.5	27.0
82.5°	26.1	25.4	25.4	25.4	24.6	23.9	23.9	23.1	22.4	20.8	19.2
85°	15.4	14.6	14.6	14.6	13.9	13.9	13.1	13.1	12.4	10.8	10.8
87.5°	4.6	4.6	5.4	5.4	4.6	4.6	4.6	4.6	4.6	3.9	3.9
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	554.2	554.2	554.2	554.2	554.2	554.2	554.2	554.2	554.2	554.2	554.2
2.5°	555.9	558.1	555.0	554.2	557.4	555.9	555.0	553.5	554.2	552.8	550.4
5°	555.0	558.1	554.2	552.0	555.9	553.5	552.0	550.4	550.4	547.4	545.8
7.5°	552.8	554.2	550.4	548.1	550.4	548.1	546.6	544.2	543.5	539.6	537.4
10°	546.6	548.1	543.5	540.4	542.8	539.6	537.4	535.0	533.5	528.9	525.8
12.5°	538.1	538.9	533.5	529.6	531.1	528.9	525.0	522.0	520.4	515.8	511.9
15°	526.5	527.4	521.1	515.8	517.4	514.2	509.6	506.5	504.2	499.6	494.2
17.5°	512.8	511.9	505.0	499.6	500.4	496.5	491.9	487.2	484.2	478.9	475.0
20°	497.2	495.0	487.2	481.1	481.9	477.2	471.9	467.2	463.4	458.9	453.4
22.5°	478.1	475.0	468.0	460.4	461.1	457.2	449.6	445.8	441.9	435.8	431.1
25°	457.2	452.6	445.8	438.0	438.0	433.4	427.2	422.6	418.8	412.6	407.2
27.5°	432.6	430.4	421.1	414.9	414.1	409.5	404.1	398.8	394.1	388.8	383.4
30°	405.8	401.9	394.9	388.0	386.5	382.6	377.2	371.0	368.0	362.6	358.0
32.5°	377.2	373.4	365.6	358.8	358.0	354.9	350.2	344.1	341.0	337.1	334.1
35°	344.9	343.4	335.6	330.2	330.2	327.1	322.5	317.1	314.9	311.0	307.1
37.5°	314.1	311.8	304.9	300.2	300.2	296.4	291.8	289.5	287.1	284.1	281.8
40°	281.8	280.2	274.9	270.2	271.0	267.9	264.9	261.8	260.2	258.6	256.4
42.5°	251.8	250.2	246.4	242.5	242.5	240.1	237.1	234.8	233.2	231.0	230.1
45°	224.8	222.5	219.4	215.5	215.5	213.2	211.8	210.1	209.4	207.9	205.5
47.5°	198.6	197.1	194.0	190.1	190.1	190.1	187.1	184.8	184.8	183.2	182.5
50°	176.2	174.0	171.6	168.6	168.6	167.0	164.8	162.4	162.4	161.6	160.1
52.5°	155.5	154.0	150.9	147.8	147.8	146.2	144.0	143.2	142.4	140.1	139.4
55°	137.8	136.2	134.0	130.1	129.4	128.5	126.2	124.8	124.0	121.6	121.6
57.5°	121.6	120.1	116.2	113.9	113.1	111.6	109.4	107.8	107.0	105.5	103.9
60°	107.8	105.5	102.4	99.2	98.5	97.0	94.8	93.1	92.4	89.2	87.8
62.5°	94.8	92.4	89.2	86.2	85.5	83.9	80.9	79.2	77.8	74.6	73.1
65°	82.4	80.0	77.0	73.9	72.4	71.6	68.5	66.2	64.6	62.4	59.2
67.5°	70.9	68.5	65.4	61.6	61.6	59.2	57.0	54.6	52.4	50.0	47.8
70°	60.0	57.8	54.6	51.6	50.8	49.2	47.0	43.9	42.4	39.2	37.0
72.5°	50.0	47.8	44.6	41.6	40.8	39.2	37.0	33.9	31.6	29.2	27.0
75°	40.8	38.5	35.4	33.1	32.4	30.8	28.5	25.4	23.1	21.5	19.2
77.5°	32.4	30.0	27.8	25.4	24.6	23.1	20.8	19.2	16.9	15.4	13.1
80°	24.6	23.1	20.8	19.2	18.5	16.9	15.4	13.1	11.5	10.0	9.2
82.5°	17.8	16.1	14.6	12.4	12.4	10.8	10.0	8.5	6.9	6.1	5.4
85°	10.0	8.5	7.8	6.9	6.1	6.1	5.4	4.6	3.9	3.1	3.1
87.5°	3.1	3.1	2.2	2.2	2.2	2.2	1.5	1.5	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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	554.2	554.2	554.2	554.2	554.2	554.2	554.2	554.2	554.2	554.2	554.2
2.5°	550.4	551.2	549.6	551.2	549.6	550.4	548.9	550.4	548.9	550.4	547.4
5°	545.0	545.0	542.8	544.2	542.8	543.5	540.4	541.2	539.6	541.2	538.1
7.5°	535.8	536.6	532.8	534.2	532.0	532.0	529.6	530.4	528.1	528.9	526.5
10°	525.0	524.2	520.4	522.0	518.9	518.9	516.5	516.5	513.5	514.2	511.1
12.5°	509.6	508.9	504.2	505.8	502.8	502.8	500.4	500.4	497.2	498.9	495.8
15°	491.9	491.1	486.5	487.2	484.2	484.2	481.1	481.9	479.6	481.1	478.1
17.5°	471.9	471.1	466.5	467.2	463.4	464.2	461.9	461.1	459.6	460.4	458.0
20°	451.1	449.6	445.0	445.8	444.2	441.9	440.4	441.1	439.6	441.1	438.8
22.5°	429.6	426.5	422.6	422.6	421.1	421.1	418.8	420.4	417.2	419.5	418.0
25°	404.9	402.6	399.5	401.1	398.0	398.0	395.8	396.5	394.9	396.5	394.9
27.5°	381.1	379.5	374.9	376.5	374.1	374.9	372.6	373.4	372.6	374.1	372.6
30°	355.6	354.9	351.8	351.8	351.0	350.2	349.5	349.5	348.8	351.0	349.5
32.5°	331.8	329.5	326.4	328.8	324.9	327.1	325.6	327.1	325.6	327.1	326.4
35°	307.1	306.4	302.5	303.2	302.5	302.5	301.8	301.8	301.8	304.1	304.1
37.5°	281.0	280.2	277.9	278.6	277.1	276.4	276.4	277.9	277.9	279.5	279.5
40°	255.6	256.4	254.0	254.0	253.2	253.2	253.2	254.9	254.0	255.6	254.9
42.5°	230.1	230.1	227.9	228.6	227.9	228.6	228.6	230.1	230.1	231.0	230.1
45°	206.4	206.4	205.5	206.4	204.8	205.5	204.8	206.4	205.5	206.4	206.4
47.5°	182.5	182.5	182.5	181.6	181.6	181.6	181.6	181.6	180.9	182.5	181.6
50°	160.1	160.9	160.1	160.1	159.4	160.1	159.4	159.4	157.9	158.6	158.6
52.5°	140.1	140.1	138.6	138.6	138.6	137.8	137.8	137.8	137.0	137.0	135.5
55°	120.9	120.9	119.4	119.4	118.5	117.8	117.0	117.0	114.8	114.8	112.4
57.5°	103.1	102.4	100.1	100.1	98.5	97.8	97.0	96.2	94.8	93.1	92.4
60°	87.0	85.5	83.9	83.1	81.6	80.0	78.5	77.0	75.5	74.6	73.9
62.5°	71.6	69.2	67.8	67.0	65.4	63.1	61.6	60.0	58.5	57.8	56.2
65°	57.8	55.4	53.1	52.4	50.8	49.2	47.0	45.4	43.9	43.1	43.1
67.5°	45.4	43.1	40.0	40.0	38.5	37.0	35.4	33.9	33.1	33.9	33.9
70°	33.9	32.4	30.0	29.2	27.8	26.1	25.4	25.4	25.4	26.1	25.4
72.5°	25.4	23.1	21.5	20.8	20.0	19.2	19.2	19.2	18.5	19.2	19.2
75°	17.8	16.1	14.6	14.6	13.9	13.9	13.9	13.9	13.9	13.9	13.9
77.5°	12.4	10.8	10.0	10.0	10.0	9.2	9.2	9.2	9.2	9.2	9.2
80°	7.8	7.8	6.9	6.9	6.1	6.1	6.1	6.1	6.1	6.1	6.1
82.5°	4.6	4.6	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
85°	2.2	2.2	2.2	2.2	2.2	1.5	1.5	1.5	1.5	1.5	1.5
87.5°	0.8	0.8	0.8	0.8	0.8	1.5	1.5	1.5	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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CATALOG NUMBER: LE_6B10D010 EC6B10209050 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	554.2	554.2	554.2	554.2	554.2	554.2	554.2	554.2
2.5°	547.4	549.6	546.6	548.9	548.1	547.4	545.8	548.9
5°	538.1	538.9	535.8	538.9	538.1	536.6	535.0	538.1
7.5°	525.0	527.4	523.5	526.5	525.8	524.2	522.8	525.8
10°	510.4	512.8	509.6	511.9	511.9	510.4	508.1	511.1
12.5°	494.2	495.8	492.8	495.8	495.0	493.5	492.8	495.0
15°	476.5	478.9	475.8	478.1	477.2	476.5	475.8	478.1
17.5°	457.2	459.6	457.2	459.6	459.6	457.2	456.5	458.0
20°	438.0	439.6	437.2	439.6	438.8	438.8	437.2	439.6
22.5°	416.5	418.8	417.2	418.8	418.0	418.0	417.2	418.8
25°	394.9	397.2	394.9	397.2	396.5	396.5	394.9	398.8
27.5°	373.4	374.9	372.6	375.6	374.9	373.4	374.1	374.9
30°	350.2	351.8	350.2	352.6	352.6	352.6	351.0	352.6
32.5°	327.1	329.5	327.1	329.5	328.8	328.8	328.0	329.5
35°	304.1	304.9	303.2	305.6	305.6	306.4	304.9	307.1
37.5°	280.2	281.0	280.2	281.0	282.5	280.2	281.8	282.5
40°	255.6	257.1	256.4	257.1	257.1	257.9	257.1	257.9
42.5°	231.0	232.5	231.0	233.2	232.5	232.5	233.2	233.2
45°	205.5	207.9	206.4	207.9	208.6	207.9	207.9	209.4
47.5°	181.6	183.2	182.5	183.2	183.2	183.2	183.2	184.8
50°	157.9	158.6	158.6	159.4	159.4	160.1	158.6	159.4
52.5°	134.0	135.5	135.5	135.5	134.8	135.5	135.5	135.5
55°	112.4	113.1	111.6	113.1	113.1	112.4	112.4	113.9
57.5°	91.6	91.6	91.6	91.6	91.6	90.9	91.6	91.6
60°	72.4	73.1	72.4	72.4	72.4	72.4	71.6	73.1
62.5°	56.2	56.2	55.4	56.2	56.2	56.2	57.0	57.0
65°	43.9	44.6	43.9	44.6	44.6	44.6	44.6	45.4
67.5°	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6
70°	26.1	26.1	26.1	27.0	26.1	26.1	26.1	27.0
72.5°	19.2	19.2	19.2	19.2	19.2	19.2	20.0	20.0
75°	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9
77.5°	9.2	9.2	9.2	10.0	9.2	10.0	9.2	9.2
80°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
82.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
85°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
87.5°	1.5	1.5	1.5	1.5	0.8	0.8	0.8	0.8
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)