

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: P252451

Luminaire Tested: **LE\_6B10D010 EC6B10209727 6LBLWW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252451  
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 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: 805.0 lumens  
Efficiency: N/A  
Efficacy: 80.5 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

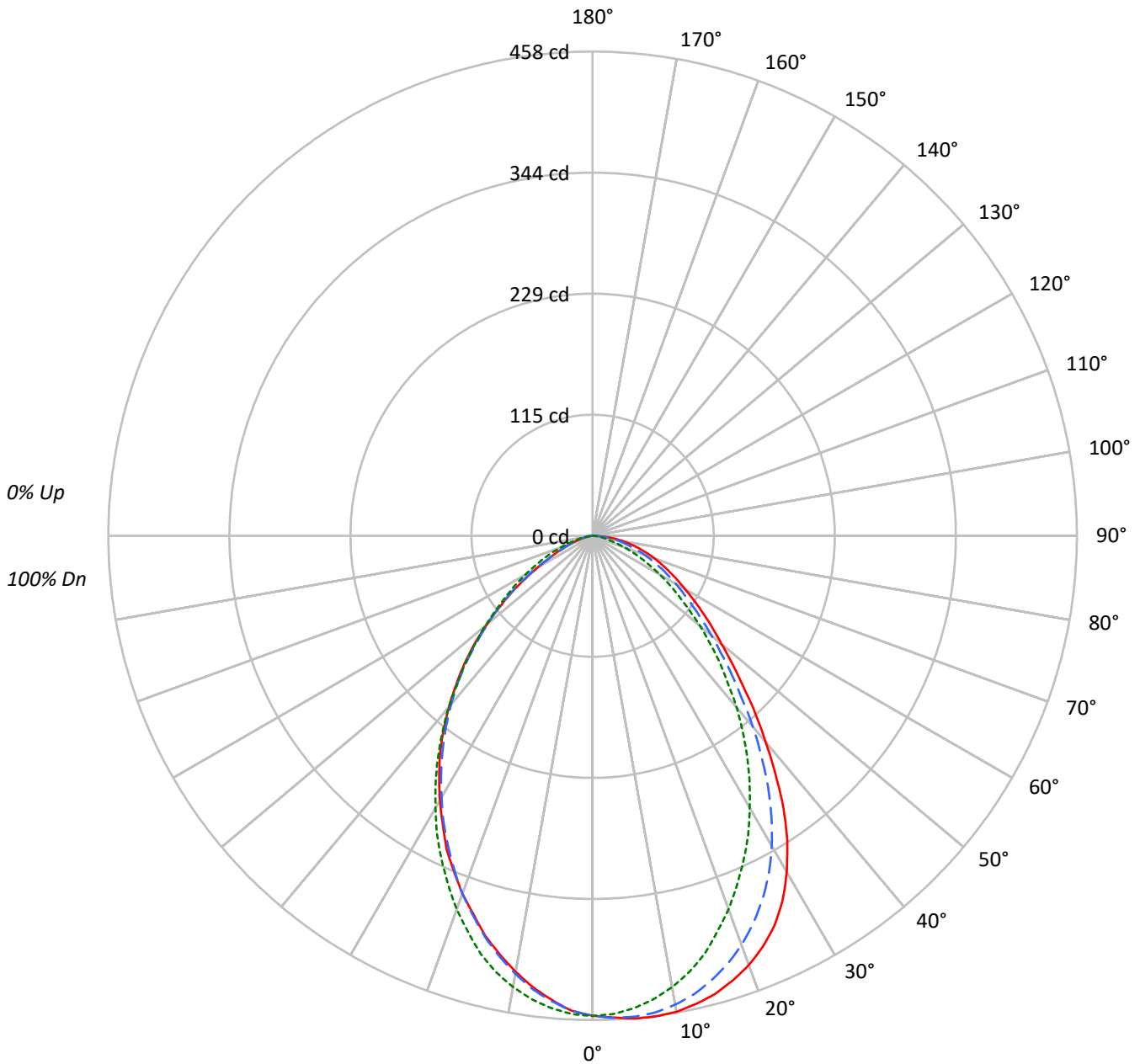
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
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	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°	29626	29626	29626
5°	30027	29372	28874
10°	30288	28711	27751
15°	30293	27652	26463
20°	30000	26098	25001
25°	29291	24338	23525
30°	27655	22382	21764
35°	25072	20301	20038
40°	21649	18047	17987
45°	18564	15703	15833
50°	16138	13448	13255
55°	14491	11329	10624
60°	13166	9538	7816
65°	12365	7888	5743
70°	11807	6123	4216
75°	11293	4436	2874
80°	10670	3081	1879
85°	9432	1871	898



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.5	5.3
10°-20°	116.3	14.5
20°-30°	161.5	20.1
30°-40°	167.3	20.8
40°-50°	137.5	17.1
50°-60°	94.5	11.7
60°-70°	54.3	6.7
70°-80°	25.0	3.1
80°-90°	6.1	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°	320.3	39.8
0°-40°	487.7	60.6
0°-60°	719.6	89.4
0°-90°	805.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	805.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	454	454	454	454	454	
5°	458	457	448	442	441	44
15°	448	435	409	393	392	126
25°	407	380	338	324	327	186
35°	315	289	255	247	252	195
45°	201	186	170	168	172	157
55°	127	115	100	94	93	115
65°	80	70	51	36	37	80
75°	45	35	18	11	11	47
85°	13	9	2	1	1	14
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°	454.1	454.1	454.1	454.1	454.1	454.1	454.1	454.1	454.1	454.1	454.1
2.5°	456.0	459.9	457.2	456.6	457.9	457.9	457.9	456.0	457.2	455.4	456.6
5°	458.5	461.8	459.1	457.9	459.1	459.9	457.9	456.6	458.5	456.0	456.6
7.5°	458.5	461.8	459.1	458.5	459.1	459.1	458.5	456.0	457.2	454.8	454.8
10°	457.2	459.9	457.2	456.0	456.6	456.0	456.0	452.9	453.5	450.4	450.4
12.5°	453.5	456.6	453.5	452.2	452.2	452.2	450.4	447.9	448.5	444.6	444.0
15°	448.5	451.0	447.9	446.6	446.6	446.0	444.6	440.9	440.9	437.1	435.2
17.5°	440.9	443.4	440.9	439.0	438.4	437.1	435.9	432.1	430.8	426.4	424.5
20°	432.1	434.0	431.4	429.5	428.2	427.0	424.5	420.8	419.5	415.0	411.9
22.5°	420.8	423.2	419.5	417.5	416.2	414.4	411.9	408.1	406.2	400.5	396.8
25°	406.9	408.1	405.0	403.0	400.5	399.2	397.4	392.4	390.4	384.1	379.8
27.5°	389.1	390.4	386.6	385.4	382.2	381.0	378.5	374.0	371.5	365.2	360.8
30°	367.1	368.4	365.9	364.0	361.4	358.9	357.0	352.6	348.8	342.5	338.8
32.5°	342.5	344.4	341.9	339.4	334.9	335.5	332.4	328.0	324.9	319.1	314.8
35°	314.8	316.0	312.9	312.2	309.8	307.1	304.0	300.9	299.0	292.6	288.9
37.5°	283.9	287.0	283.9	281.4	280.0	278.1	276.2	271.9	270.6	266.8	261.8
40°	254.2	256.1	254.2	251.6	249.8	249.8	247.2	244.8	241.6	237.8	235.9
42.5°	227.8	226.5	225.8	224.5	222.0	221.4	220.8	217.6	215.8	211.9	208.8
45°	201.2	201.9	200.6	200.0	198.0	196.8	195.5	193.0	192.4	188.6	186.1
47.5°	179.1	178.5	177.2	177.2	176.0	174.8	173.5	171.6	170.9	167.8	165.2
50°	159.0	159.6	159.0	158.4	156.4	155.8	154.5	153.2	152.0	148.9	146.4
52.5°	142.5	141.9	141.2	141.2	139.4	138.8	137.5	136.2	135.0	131.9	129.9
55°	127.4	127.4	126.8	126.1	124.2	123.6	123.0	121.8	119.9	117.4	115.4
57.5°	113.5	113.5	112.9	112.2	111.0	111.0	109.8	108.5	107.2	104.8	102.1
60°	100.9	101.5	100.9	100.2	99.0	99.0	98.4	96.5	95.9	92.8	90.9
62.5°	90.2	90.2	90.2	89.6	88.9	87.6	87.6	85.8	84.5	82.6	80.1
65°	80.1	80.1	80.1	79.5	78.2	77.6	77.0	75.8	74.4	72.5	70.0
67.5°	70.6	70.6	70.6	70.0	68.8	68.1	67.5	66.9	65.0	63.1	60.5
70°	61.9	61.9	61.1	60.5	59.9	59.2	58.6	57.4	56.1	53.6	51.8
72.5°	53.0	53.0	53.0	51.8	51.1	51.1	49.9	49.2	47.9	45.4	43.5
75°	44.8	44.1	44.1	43.5	42.9	42.2	41.6	41.0	39.1	37.9	35.4
77.5°	36.6	36.6	36.0	35.4	35.4	34.8	34.0	32.8	32.1	30.2	28.4
80°	28.4	28.4	28.4	28.4	27.8	27.1	27.1	25.9	25.2	23.4	22.1
82.5°	21.5	20.9	20.9	20.9	20.1	19.5	19.5	18.9	18.2	17.0	15.8
85°	12.6	12.0	12.0	12.0	11.4	11.4	10.8	10.8	10.1	8.9	8.9
87.5°	3.8	3.8	4.4	4.4	3.8	3.8	3.8	3.8	3.8	3.1	3.1
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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	454.1	454.1	454.1	454.1	454.1	454.1	454.1	454.1	454.1	454.1	454.1
2.5°	455.4	457.2	454.8	454.1	456.6	455.4	454.8	453.5	454.1	452.9	451.0
5°	454.8	457.2	454.1	452.2	455.4	453.5	452.2	451.0	451.0	448.5	447.2
7.5°	452.9	454.1	451.0	449.1	451.0	449.1	447.9	446.0	445.2	442.1	440.2
10°	447.9	449.1	445.2	442.8	444.6	442.1	440.2	438.4	437.1	433.4	430.8
12.5°	440.9	441.5	437.1	434.0	435.2	433.4	430.1	427.6	426.4	422.6	419.5
15°	431.4	432.1	427.0	422.6	423.9	421.4	417.5	415.0	413.1	409.4	405.0
17.5°	420.1	419.5	413.8	409.4	410.0	406.9	403.0	399.2	396.8	392.4	389.1
20°	407.5	405.6	399.2	394.2	394.9	391.1	386.6	382.9	379.8	375.9	371.5
22.5°	391.8	389.1	383.5	377.2	377.9	374.6	368.4	365.2	362.0	357.0	353.2
25°	374.6	370.9	365.2	358.9	358.9	355.1	350.1	346.2	343.1	338.1	333.6
27.5°	354.5	352.6	345.0	340.0	339.4	335.5	331.1	326.8	323.0	318.5	314.1
30°	332.4	329.2	323.6	317.9	316.6	313.5	309.1	304.0	301.5	297.1	293.2
32.5°	309.1	305.9	299.6	293.9	293.2	290.8	287.0	282.0	279.4	276.2	273.8
35°	282.6	281.4	275.0	270.6	270.6	268.1	264.2	259.9	258.0	254.9	251.6
37.5°	257.4	255.5	249.8	246.0	246.0	242.9	239.0	237.1	235.2	232.8	230.9
40°	230.9	229.6	225.1	221.4	222.0	219.5	217.0	214.5	213.2	211.9	210.0
42.5°	206.2	205.0	201.9	198.6	198.6	196.8	194.2	192.4	191.1	189.2	188.6
45°	184.1	182.2	179.8	176.6	176.6	174.8	173.5	172.2	171.6	170.2	168.4
47.5°	162.8	161.5	159.0	155.8	155.8	155.8	153.2	151.4	151.4	150.1	149.5
50°	144.5	142.5	140.6	138.1	138.1	136.9	135.0	133.1	133.1	132.5	131.2
52.5°	127.4	126.1	123.6	121.1	121.1	119.9	118.0	117.4	116.8	114.8	114.1
55°	112.9	111.6	109.8	106.6	106.0	105.4	103.5	102.1	101.5	99.6	99.6
57.5°	99.6	98.4	95.2	93.4	92.8	91.5	89.6	88.2	87.6	86.4	85.1
60°	88.2	86.4	83.9	81.4	80.8	79.5	77.6	76.4	75.8	73.1	71.9
62.5°	77.6	75.8	73.1	70.6	70.0	68.8	66.2	65.0	63.8	61.1	59.9
65°	67.5	65.6	63.1	60.5	59.2	58.6	56.1	54.2	53.0	51.1	48.6
67.5°	58.0	56.1	53.6	50.5	50.5	48.6	46.6	44.8	42.9	41.0	39.1
70°	49.2	47.2	44.8	42.2	41.6	40.4	38.5	36.0	34.8	32.1	30.2
72.5°	41.0	39.1	36.6	34.0	33.4	32.1	30.2	27.8	25.9	24.0	22.1
75°	33.4	31.5	29.0	27.1	26.5	25.2	23.4	20.9	18.9	17.6	15.8
77.5°	26.5	24.6	22.8	20.9	20.1	18.9	17.0	15.8	13.9	12.6	10.8
80°	20.1	18.9	17.0	15.8	15.1	13.9	12.6	10.8	9.5	8.2	7.6
82.5°	14.5	13.2	12.0	10.1	10.1	8.9	8.2	7.0	5.6	5.0	4.4
85°	8.2	7.0	6.2	5.6	5.0	5.0	4.4	3.8	3.1	2.5	2.5
87.5°	2.5	2.5	1.9	1.9	1.9	1.9	1.2	1.2	1.2	1.2	1.2
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):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	454.1	454.1	454.1	454.1	454.1	454.1	454.1	454.1	454.1	454.1	454.1
2.5°	451.0	451.6	450.4	451.6	450.4	451.0	449.8	451.0	449.8	451.0	448.5
5°	446.6	446.6	444.6	446.0	444.6	445.2	442.8	443.4	442.1	443.4	440.9
7.5°	439.0	439.6	436.5	437.8	435.9	435.9	434.0	434.6	432.8	433.4	431.4
10°	430.1	429.5	426.4	427.6	425.1	425.1	423.2	423.2	420.8	421.4	418.9
12.5°	417.5	416.9	413.1	414.4	411.9	411.9	410.0	410.0	407.5	408.8	406.2
15°	403.0	402.4	398.6	399.2	396.8	396.8	394.2	394.9	393.0	394.2	391.8
17.5°	386.6	386.0	382.2	382.9	379.8	380.4	378.5	377.9	376.5	377.2	375.2
20°	369.6	368.4	364.6	365.2	364.0	362.0	360.8	361.4	360.1	361.4	359.5
22.5°	352.0	349.4	346.2	346.2	345.0	345.0	343.1	344.4	341.9	343.8	342.5
25°	331.8	329.9	327.4	328.6	326.1	326.1	324.2	324.9	323.6	324.9	323.6
27.5°	312.2	311.0	307.1	308.4	306.5	307.1	305.2	305.9	305.2	306.5	305.2
30°	291.4	290.8	288.2	288.2	287.6	287.0	286.4	286.4	285.8	287.6	286.4
32.5°	271.9	270.0	267.5	269.4	266.1	268.1	266.8	268.1	266.8	268.1	267.5
35°	251.6	251.0	247.9	248.5	247.9	247.9	247.2	247.2	247.2	249.1	249.1
37.5°	230.2	229.6	227.8	228.4	227.1	226.5	226.5	227.8	227.8	229.0	229.0
40°	209.4	210.0	208.1	208.1	207.5	207.5	207.5	208.8	208.1	209.4	208.8
42.5°	188.6	188.6	186.8	187.4	186.8	187.4	187.4	188.6	188.6	189.2	188.6
45°	169.0	169.0	168.4	169.0	167.8	168.4	167.8	169.0	168.4	169.0	169.0
47.5°	149.5	149.5	149.5	148.9	148.9	148.9	148.9	148.9	148.2	149.5	148.9
50°	131.2	131.9	131.2	131.2	130.6	131.2	130.6	130.6	129.2	129.9	129.9
52.5°	114.8	114.8	113.5	113.5	113.5	112.9	112.9	112.9	112.2	112.2	111.0
55°	99.0	99.0	97.8	97.8	97.1	96.5	95.9	95.9	94.0	94.0	92.1
57.5°	84.5	83.9	82.0	82.0	80.8	80.1	79.5	78.9	77.6	76.4	75.8
60°	71.2	70.0	68.8	68.1	66.9	65.6	64.4	63.1	61.9	61.1	60.5
62.5°	58.6	56.8	55.5	54.9	53.6	51.8	50.5	49.2	47.9	47.2	46.0
65°	47.2	45.4	43.5	42.9	41.6	40.4	38.5	37.2	36.0	35.4	35.4
67.5°	37.2	35.4	32.8	32.8	31.5	30.2	29.0	27.8	27.1	27.8	27.8
70°	27.8	26.5	24.6	24.0	22.8	21.5	20.9	20.9	20.9	21.5	20.9
72.5°	20.9	18.9	17.6	17.0	16.4	15.8	15.8	15.8	15.1	15.8	15.8
75°	14.5	13.2	12.0	12.0	11.4	11.4	11.4	11.4	11.4	11.4	11.4
77.5°	10.1	8.9	8.2	8.2	8.2	7.6	7.6	7.6	7.6	7.6	7.6
80°	6.2	6.2	5.6	5.6	5.0	5.0	5.0	5.0	5.0	5.0	5.0
82.5°	3.8	3.8	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
85°	1.9	1.9	1.9	1.9	1.9	1.2	1.2	1.2	1.2	1.2	1.2
87.5°	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2
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°	454.1	454.1	454.1	454.1	454.1	454.1	454.1	454.1
2.5°	448.5	450.4	447.9	449.8	449.1	448.5	447.2	449.8
5°	440.9	441.5	439.0	441.5	440.9	439.6	438.4	440.9
7.5°	430.1	432.1	428.9	431.4	430.8	429.5	428.2	430.8
10°	418.1	420.1	417.5	419.5	419.5	418.1	416.2	418.9
12.5°	405.0	406.2	403.6	406.2	405.6	404.2	403.6	405.6
15°	390.4	392.4	389.8	391.8	391.1	390.4	389.8	391.8
17.5°	374.6	376.5	374.6	376.5	376.5	374.6	374.0	375.2
20°	358.9	360.1	358.2	360.1	359.5	359.5	358.2	360.1
22.5°	341.2	343.1	341.9	343.1	342.5	342.5	341.9	343.1
25°	323.6	325.5	323.6	325.5	324.9	324.9	323.6	326.8
27.5°	305.9	307.1	305.2	307.8	307.1	305.9	306.5	307.1
30°	287.0	288.2	287.0	288.9	288.9	288.9	287.6	288.9
32.5°	268.1	270.0	268.1	270.0	269.4	269.4	268.8	270.0
35°	249.1	249.8	248.5	250.4	250.4	251.0	249.8	251.6
37.5°	229.6	230.2	229.6	230.2	231.5	229.6	230.9	231.5
40°	209.4	210.6	210.0	210.6	210.6	211.2	210.6	211.2
42.5°	189.2	190.5	189.2	191.1	190.5	190.5	191.1	191.1
45°	168.4	170.2	169.0	170.2	170.9	170.2	170.2	171.6
47.5°	148.9	150.1	149.5	150.1	150.1	150.1	150.1	151.4
50°	129.2	129.9	129.9	130.6	130.6	131.2	129.9	130.6
52.5°	109.8	111.0	111.0	111.0	110.4	111.0	111.0	111.0
55°	92.1	92.8	91.5	92.8	92.8	92.1	92.1	93.4
57.5°	75.0	75.0	75.0	75.0	75.0	74.4	75.0	75.0
60°	59.2	59.9	59.2	59.2	59.2	59.2	58.6	59.9
62.5°	46.0	46.0	45.4	46.0	46.0	46.0	46.6	46.6
65°	36.0	36.6	36.0	36.6	36.6	36.6	36.6	37.2
67.5°	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4
70°	21.5	21.5	21.5	22.1	21.5	21.5	21.5	22.1
72.5°	15.8	15.8	15.8	15.8	15.8	15.8	16.4	16.4
75°	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
77.5°	7.6	7.6	7.6	8.2	7.6	8.2	7.6	7.6
80°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
82.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
87.5°	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6
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)