

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: P252347

Luminaire Tested: **LE_6B10D010 EC6B10209727 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252347
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-5)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B10D010 EC6B10209727 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 857.5 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.03 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

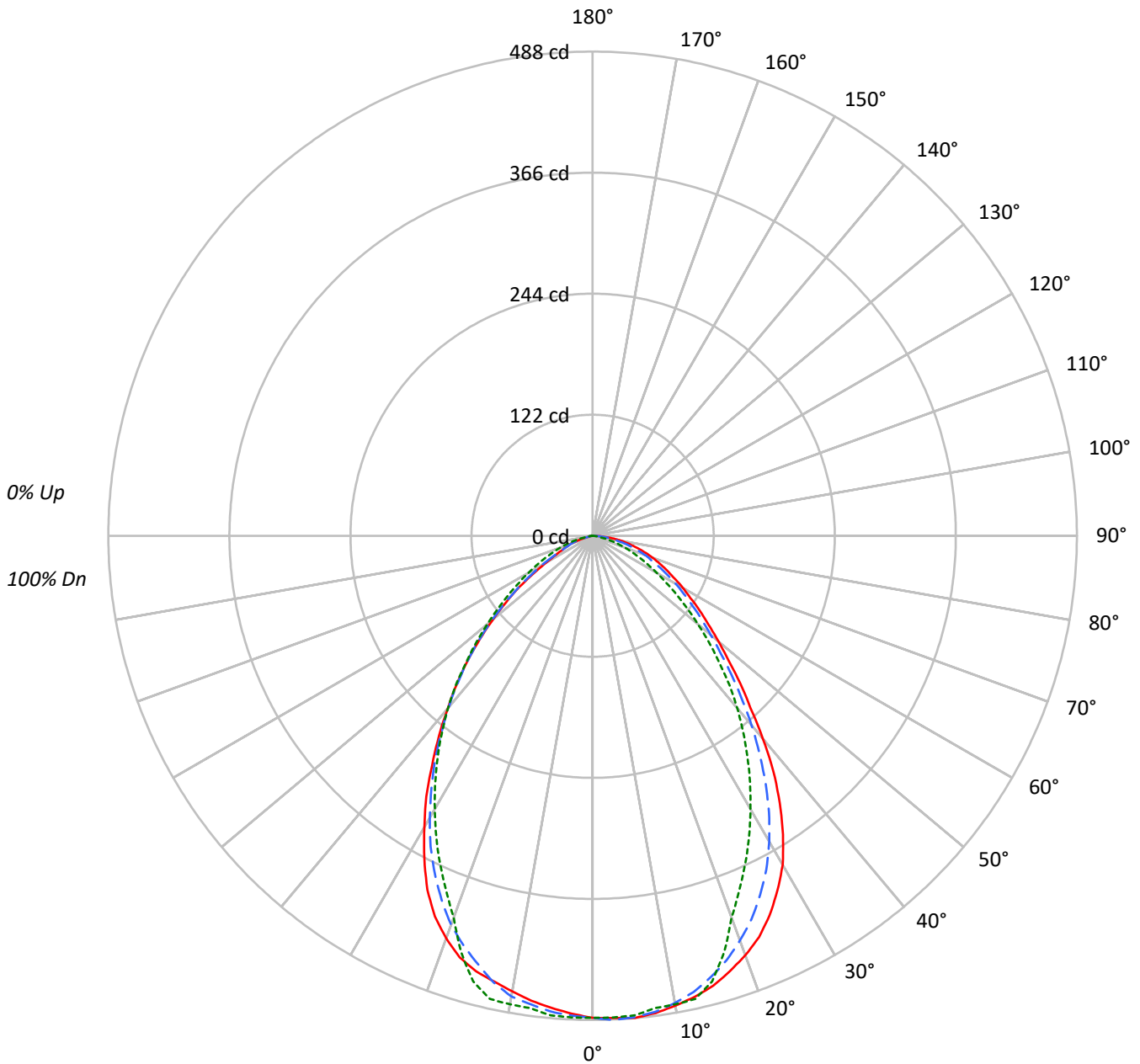
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88																			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77																			
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68																			
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60																			
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54																			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48																			
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44																			
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40																			
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36																			
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	31700	31700	31700
5°	31946	31776	31278
10°	31858	31765	30884
15°	31711	31407	30691
20°	31235	28431	29965
25°	30385	26210	28348
30°	28853	23956	25530
35°	26187	21663	22460
40°	22731	19290	19341
45°	19385	16598	16423
50°	16788	14027	13255
55°	15003	11704	10260
60°	13674	9721	6916
65°	12751	7996	5171
70°	12170	6505	4349
75°	11444	4588	1412
80°	10895	2329	451
85°	8983	1422	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.9	5.4
10°-20°	128.3	15.0
20°-30°	177.1	20.7
30°-40°	180.2	21.0
40°-50°	144.9	16.9
50°-60°	96.3	11.2
60°-70°	54.9	6.4
70°-80°	24.6	2.9
80°-90°	5.2	0.6
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°	351.3	41.0
0°-40°	531.6	62.0
0°-60°	772.8	90.1
0°-90°	857.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	857.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	486	486	486	486	486	
5°	488	487	485	482	478	46
15°	470	461	465	447	454	132
25°	422	399	364	376	394	193
35°	329	304	272	277	282	204
45°	210	198	180	178	178	163
55°	132	123	103	92	90	119
65°	83	74	52	34	34	82
75°	45	38	18	8	6	49
85°	12	8	2	1	0	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°	485.9	485.9	485.9	485.9	485.9	485.9	485.9	485.9	485.9	485.9	485.9
2.5°	486.5	489.0	488.4	487.8	488.4	487.8	486.5	486.5	485.2	485.2	488.4
5°	487.8	489.0	488.4	487.8	487.8	488.4	485.9	485.9	484.6	484.0	487.1
7.5°	485.2	487.1	485.9	485.9	485.2	485.9	483.4	483.4	481.5	480.9	484.0
10°	480.9	483.4	482.1	482.1	482.1	480.9	479.5	478.9	477.0	476.4	478.2
12.5°	475.8	477.6	477.0	475.8	475.8	475.8	473.2	472.6	470.1	468.9	470.8
15°	469.5	470.8	470.1	469.5	468.2	468.2	465.6	464.4	461.9	459.4	460.6
17.5°	460.0	461.9	460.6	460.0	458.1	458.1	455.6	454.4	450.5	448.0	448.6
20°	449.9	450.5	449.9	448.6	446.8	446.1	443.6	441.1	437.9	434.8	434.1
22.5°	437.9	438.5	436.6	435.4	433.5	432.9	429.8	427.9	422.8	419.0	418.4
25°	422.1	422.8	422.8	419.6	418.4	417.1	413.9	410.8	406.4	401.4	399.4
27.5°	403.2	405.1	403.9	400.6	398.1	397.5	394.4	391.9	386.1	381.8	379.2
30°	383.0	382.4	381.8	379.9	376.1	375.5	372.2	369.1	364.8	359.0	355.9
32.5°	357.1	357.1	356.5	354.6	350.9	349.6	347.0	343.2	338.2	333.8	330.6
35°	328.8	329.4	328.8	325.0	322.5	321.1	319.9	315.5	311.1	306.0	303.5
37.5°	299.1	297.2	297.9	294.6	291.5	292.8	289.0	287.1	282.0	278.2	275.8
40°	266.9	268.1	265.6	264.4	262.5	260.6	260.6	257.5	254.9	250.5	249.2
42.5°	235.4	237.2	236.6	235.4	232.9	233.5	230.4	229.0	225.9	224.0	222.1
45°	210.1	210.1	210.1	208.9	208.2	207.0	205.1	203.1	201.2	198.8	197.5
47.5°	185.5	185.5	186.1	184.9	183.6	183.0	181.8	181.8	178.6	176.0	174.8
50°	165.4	165.4	165.4	164.0	162.8	162.8	161.5	160.2	158.4	156.5	155.2
52.5°	147.0	147.0	147.0	145.8	145.1	144.5	143.9	143.2	140.8	139.5	138.2
55°	131.9	131.2	131.2	130.6	129.4	129.4	128.8	127.5	125.6	123.6	123.0
57.5°	116.8	117.4	116.8	116.8	115.5	115.5	114.2	113.6	111.6	110.4	109.1
60°	104.8	104.8	104.8	104.1	102.9	103.5	102.2	101.6	99.8	97.8	96.5
62.5°	92.8	93.4	93.4	92.8	91.5	91.5	90.9	90.2	88.4	86.5	84.5
65°	82.6	82.6	82.6	82.0	81.4	81.4	80.8	80.1	78.2	75.8	73.9
67.5°	73.2	72.6	72.6	72.6	71.9	71.2	70.6	70.0	68.1	66.2	63.8
70°	63.8	63.8	63.8	63.1	61.9	62.5	61.9	61.2	59.4	57.4	55.5
72.5°	54.9	54.9	54.2	53.6	53.6	53.0	53.0	52.4	50.5	48.0	46.1
75°	45.4	45.4	45.4	45.4	44.1	44.8	43.5	42.9	41.6	39.8	37.9
77.5°	37.2	37.2	37.2	36.6	36.0	36.0	35.4	34.8	32.8	31.5	29.0
80°	29.0	29.0	29.0	29.0	28.4	27.8	27.1	26.5	25.2	23.4	21.5
82.5°	21.5	21.5	20.9	20.9	20.9	20.2	19.5	18.9	17.6	16.4	15.1
85°	12.0	12.6	12.6	11.4	12.0	11.4	11.4	10.1	10.1	8.9	8.2
87.5°	4.4	3.8	3.8	3.8	3.8	3.8	3.8	3.1	3.1	3.1	2.5
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°	485.9	485.9	485.9	485.9	485.9	485.9	485.9	485.9	485.9	485.9	485.9
2.5°	485.9	485.2	487.8	487.8	484.0	485.9	486.5	485.2	485.2	485.9	484.0
5°	484.6	483.4	485.9	486.5	482.8	484.6	485.2	484.0	484.6	485.2	482.8
7.5°	480.2	480.2	482.1	482.8	478.9	480.9	480.9	479.5	480.2	480.2	478.2
10°	475.8	473.9	475.8	475.8	472.6	473.2	474.5	473.9	476.4	479.5	479.5
12.5°	467.6	465.6	468.9	468.9	466.9	469.5	472.6	474.5	477.0	478.2	474.5
15°	457.5	458.1	463.8	468.2	466.2	470.1	473.2	472.0	468.9	465.0	459.4
17.5°	444.2	442.4	447.4	449.9	447.4	448.6	451.1	448.6	443.6	440.4	432.9
20°	429.1	424.0	424.0	422.8	418.4	418.4	417.8	413.2	411.4	409.5	406.4
22.5°	412.0	406.4	404.5	400.6	396.9	396.2	394.4	390.0	387.4	386.1	382.4
25°	392.5	387.4	384.2	380.5	374.8	373.5	371.6	367.2	366.0	364.1	360.9
27.5°	372.2	366.0	361.5	357.8	352.8	352.1	348.2	345.1	342.6	341.4	338.9
30°	349.0	342.0	338.9	333.8	330.0	328.8	325.6	321.1	319.2	318.0	316.1
32.5°	323.1	317.4	314.2	309.9	304.8	305.4	301.6	297.9	296.6	295.2	293.4
35°	297.9	292.1	288.4	284.6	281.4	280.1	277.6	274.5	272.6	272.0	270.8
37.5°	270.1	265.6	262.5	258.8	256.1	254.9	253.6	250.5	249.2	249.2	246.8
40°	242.9	239.1	236.6	234.8	231.6	231.0	229.6	227.8	227.1	226.5	224.6
42.5°	218.4	213.2	211.4	210.1	208.2	207.0	206.4	205.1	204.5	203.8	201.9
45°	195.0	190.5	188.6	187.4	185.5	184.9	184.2	182.4	181.1	179.9	179.2
47.5°	172.2	169.1	168.5	165.4	164.0	162.8	161.5	160.2	159.6	159.0	156.5
50°	152.8	150.8	147.6	145.8	144.5	143.9	141.4	139.5	138.9	138.2	136.2
52.5°	135.0	132.5	130.6	127.5	126.9	125.6	124.2	121.8	120.5	119.9	118.0
55°	119.2	117.4	114.9	112.4	110.4	109.8	107.9	105.4	104.1	102.9	101.6
57.5°	106.0	102.9	100.4	97.8	96.5	94.6	92.8	91.5	89.6	87.8	85.9
60°	93.4	90.9	87.8	85.1	83.9	82.6	80.1	78.2	76.4	74.5	72.6
62.5°	81.4	78.9	75.8	73.2	71.9	70.6	68.1	66.2	64.4	62.5	60.0
65°	70.6	68.1	65.6	63.1	61.9	60.6	58.0	55.5	53.6	51.8	49.2
67.5°	61.9	58.6	56.1	53.6	52.4	51.1	48.6	46.8	44.1	42.2	39.8
70°	52.4	49.9	48.0	45.4	44.1	42.9	40.4	37.9	36.0	34.1	31.5
72.5°	44.1	41.0	39.1	36.6	35.4	34.8	32.1	30.2	28.4	25.9	24.0
75°	35.4	32.8	30.2	28.4	27.1	26.5	24.0	22.1	20.2	18.2	16.4
77.5°	27.1	25.2	22.8	20.9	19.5	18.9	16.4	14.5	12.6	11.4	9.5
80°	20.2	17.6	16.4	14.5	13.9	12.6	11.4	9.5	8.2	6.2	5.0
82.5°	13.9	12.0	10.8	9.5	8.9	8.2	7.0	5.6	4.4	3.8	3.1
85°	7.6	6.2	5.6	5.0	4.4	4.4	3.8	3.1	2.5	1.9	1.2
87.5°	2.5	1.9	1.9	1.9	1.9	1.2	1.2	1.2	0.6	0.6	0.6
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	485.9	485.9	485.9	485.9	485.9	485.9	485.9	485.9	485.9	485.9	485.9
2.5°	485.2	485.2	485.2	484.6	484.6	484.6	484.0	486.5	484.0	483.4	485.2
5°	484.6	483.4	483.4	483.4	483.4	482.8	482.1	483.4	481.5	480.9	480.9
7.5°	480.9	480.2	480.2	479.5	478.9	478.2	477.6	478.2	476.4	475.8	475.8
10°	481.5	480.2	480.2	478.2	477.0	475.1	473.2	473.9	471.4	469.5	469.5
12.5°	473.9	470.8	468.9	466.9	465.6	465.0	462.5	463.8	461.2	460.6	460.6
15°	456.9	453.0	449.9	448.6	448.6	447.4	445.5	448.0	446.8	447.4	450.5
17.5°	430.4	428.5	426.5	425.9	426.5	427.9	429.1	432.9	432.9	434.8	437.9
20°	407.0	405.8	407.0	407.0	407.6	410.1	412.6	415.9	417.1	419.0	423.4
22.5°	384.2	384.2	385.5	387.4	386.8	391.2	391.9	397.5	397.5	401.4	405.1
25°	362.2	362.2	363.5	364.1	365.4	367.9	370.4	374.8	376.1	379.9	383.0
27.5°	340.8	340.1	340.1	340.8	342.0	345.1	346.4	351.5	353.4	355.9	359.0
30°	316.8	316.1	317.4	318.6	318.0	321.1	323.1	326.9	328.1	330.6	333.1
32.5°	294.0	294.0	294.0	295.2	295.2	297.9	297.9	302.2	302.2	304.1	306.6
35°	270.8	270.8	271.4	272.0	272.6	273.2	273.9	276.4	277.0	277.6	278.9
37.5°	248.6	248.0	248.6	248.6	247.4	249.9	249.9	252.4	250.5	252.4	253.0
40°	225.9	225.9	225.2	225.2	225.2	226.5	225.2	227.1	225.9	227.1	226.5
42.5°	202.5	202.5	201.2	202.5	201.9	201.9	201.9	203.1	201.2	202.5	203.1
45°	179.2	178.6	178.6	178.0	178.0	178.0	178.6	178.6	178.0	179.2	179.2
47.5°	156.5	155.9	155.9	155.9	155.9	156.5	154.6	155.9	154.6	154.6	154.6
50°	136.9	136.2	135.6	135.0	134.4	134.4	133.8	133.8	132.5	131.9	131.2
52.5°	118.0	117.4	116.1	116.1	115.5	114.9	113.0	113.0	111.0	110.4	110.4
55°	101.0	99.1	98.4	97.1	97.1	95.9	94.6	93.4	91.5	90.2	90.2
57.5°	85.1	83.2	82.0	81.4	80.8	79.5	77.0	76.4	73.9	73.2	72.6
60°	71.2	69.4	67.5	66.2	65.6	63.8	61.2	60.0	58.6	56.8	54.9
62.5°	58.0	56.1	53.6	53.0	51.8	49.9	48.0	46.1	44.8	42.9	41.6
65°	46.8	44.8	42.9	41.6	40.4	38.5	36.6	34.8	33.5	32.8	32.1
67.5°	37.9	35.4	33.5	32.8	31.5	30.2	28.4	27.8	26.5	26.5	26.5
70°	29.6	27.8	25.9	25.2	24.6	23.4	22.1	22.1	22.1	22.1	22.1
72.5°	22.1	20.9	18.9	18.2	17.6	17.0	15.8	16.4	15.8	15.8	15.8
75°	13.9	12.6	11.4	10.8	10.1	9.5	8.9	8.2	7.6	7.0	7.0
77.5°	7.6	6.2	5.6	5.0	5.0	4.4	3.8	3.8	3.1	3.1	3.1
80°	4.4	3.8	3.1	2.5	2.5	1.9	1.9	1.9	1.9	1.2	1.2
82.5°	2.5	1.9	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.6
85°	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	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	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	485.9	485.9	485.9	485.9	485.9	485.9	485.9	485.9
2.5°	482.1	484.0	482.1	484.0	484.0	484.0	484.0	482.1
5°	478.9	480.2	478.2	479.5	480.2	479.5	479.5	477.6
7.5°	473.2	474.5	472.6	474.5	475.1	474.5	473.9	472.6
10°	467.6	468.2	466.2	467.6	468.9	468.9	468.2	466.2
12.5°	458.8	460.6	458.8	460.0	461.2	461.9	461.9	460.0
15°	448.6	451.8	450.5	452.4	454.4	455.0	455.0	454.4
17.5°	438.5	441.8	439.8	443.0	444.9	446.1	446.8	445.5
20°	424.0	427.9	426.5	429.1	431.6	433.5	433.5	431.6
22.5°	405.1	410.1	409.5	411.4	414.6	415.2	416.5	415.2
25°	384.2	388.0	387.4	389.4	393.1	393.1	393.8	393.8
27.5°	360.2	364.1	363.5	364.8	367.2	367.9	368.5	367.2
30°	334.4	336.4	336.4	338.2	340.1	340.8	340.8	338.9
32.5°	306.0	308.5	309.9	309.2	311.1	312.4	311.8	311.8
35°	280.1	280.8	281.4	282.0	282.6	284.0	282.6	282.0
37.5°	252.4	254.2	253.0	254.2	255.5	254.9	254.2	254.2
40°	227.1	227.8	226.5	227.8	228.4	228.4	228.4	227.1
42.5°	201.9	203.1	201.9	203.1	203.1	203.1	203.1	202.5
45°	176.6	178.0	178.0	178.6	178.6	178.0	178.0	178.0
47.5°	153.4	154.6	153.4	154.6	155.2	154.0	154.0	154.0
50°	131.2	130.6	130.6	131.2	131.2	131.2	131.2	130.6
52.5°	108.5	109.1	109.1	109.1	109.8	109.1	109.8	109.8
55°	89.0	89.0	89.0	89.6	89.0	89.0	89.6	90.2
57.5°	71.2	70.6	70.0	70.0	70.6	70.0	70.0	70.0
60°	54.9	54.2	53.6	53.6	53.6	53.6	53.6	53.0
62.5°	41.0	41.0	41.0	41.6	41.6	41.6	41.6	42.2
65°	32.8	32.8	32.8	32.8	32.8	32.8	32.8	33.5
67.5°	26.5	26.5	26.5	27.1	27.1	27.1	27.1	27.1
70°	22.1	22.1	22.8	22.1	22.8	22.8	22.8	22.8
72.5°	15.1	15.1	15.1	15.1	15.1	14.5	15.1	14.5
75°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	5.6
77.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
82.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0
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)