

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: P252348

Luminaire Tested: **LE_6B10D010 EC6B10209730 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252348
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 EC6B10209730 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 896.2 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

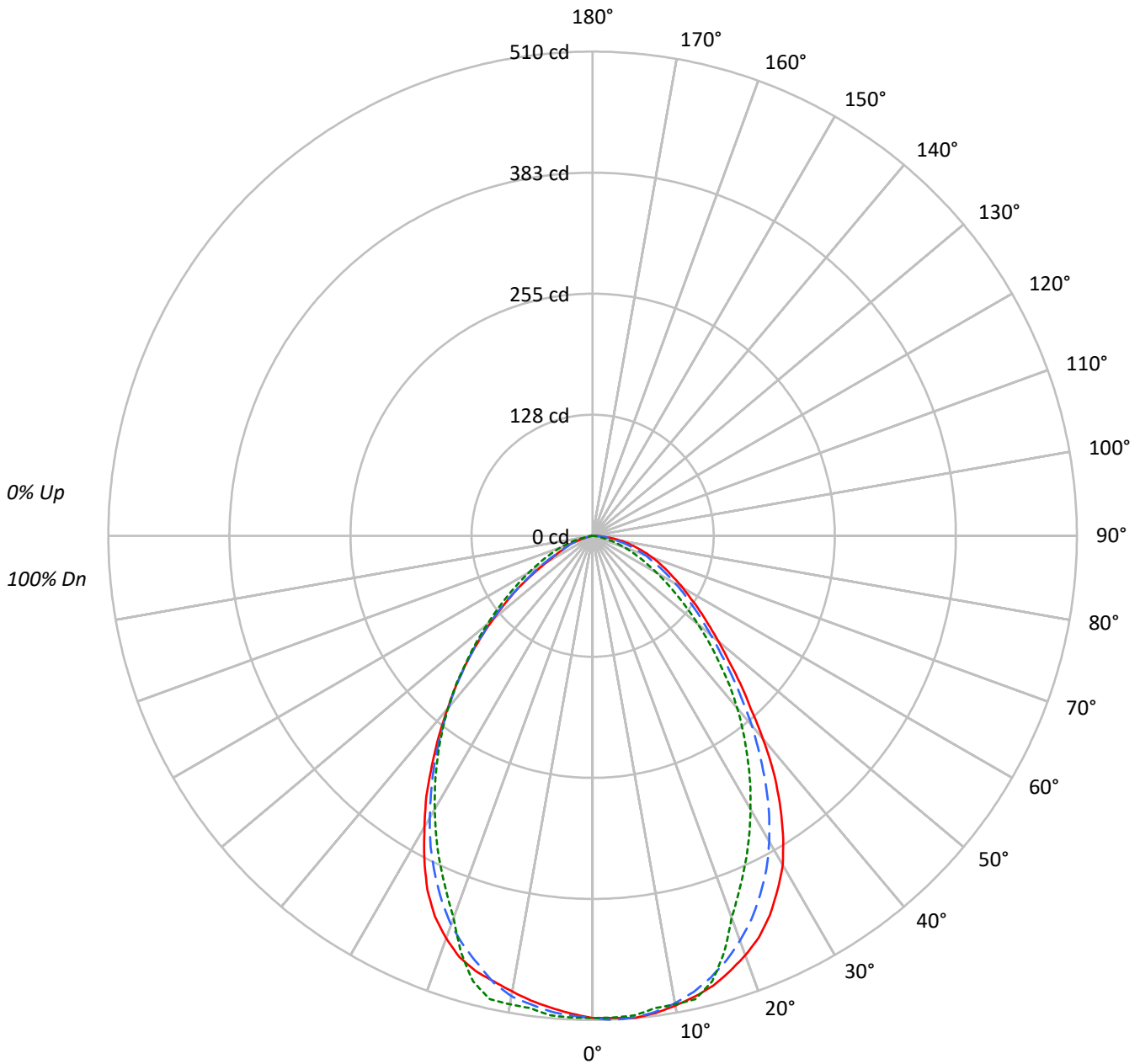
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	33136	33136	33136
5°	33387	33210	32693
10°	33289	33203	32289
15°	33136	32825	32076
20°	32645	29715	31319
25°	31760	27390	29622
30°	30163	25041	26676
35°	27366	22635	23479
40°	23761	20167	20218
45°	20261	17346	17161
50°	17539	14656	13854
55°	15685	12227	10715
60°	14288	10164	7229
65°	13338	8352	5403
70°	12704	6791	4540
75°	11973	4815	1487
80°	11421	2480	526
85°	9357	1497	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.0	5.4
10°-20°	134.1	15.0
20°-30°	185.1	20.7
30°-40°	188.4	21.0
40°-50°	151.4	16.9
50°-60°	100.7	11.2
60°-70°	57.4	6.4
70°-80°	25.8	2.9
80°-90°	5.4	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°	367.2	41.0
0°-40°	555.6	62.0
0°-60°	807.7	90.1
0°-90°	896.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	896.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	508	508	508	508	508	
5°	510	509	507	503	499	48
15°	491	482	486	467	475	138
25°	441	418	380	393	412	202
35°	344	317	284	290	295	214
45°	220	206	188	186	186	170
55°	138	129	108	96	94	124
65°	86	77	54	35	35	86
75°	48	40	19	8	6	51
85°	12	9	2	1	0	15
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°	507.9	507.9	507.9	507.9	507.9	507.9	507.9	507.9	507.9	507.9	507.9
2.5°	508.5	511.1	510.5	509.8	510.5	509.8	508.5	508.5	507.1	507.1	510.5
5°	509.8	511.1	510.5	509.8	509.8	510.5	507.9	507.9	506.5	505.9	509.1
7.5°	507.1	509.1	507.9	507.9	507.1	507.9	505.1	505.1	503.2	502.5	505.9
10°	502.5	505.1	503.9	503.9	503.9	502.5	501.2	500.6	498.6	497.9	499.9
12.5°	497.2	499.2	498.6	497.2	497.2	497.2	494.6	494.0	491.4	490.0	492.0
15°	490.6	492.0	491.4	490.6	489.4	489.4	486.8	485.4	482.8	480.1	481.5
17.5°	480.8	482.8	481.5	480.8	478.8	478.8	476.1	474.9	470.9	468.2	468.9
20°	470.2	470.9	470.2	468.9	466.9	466.2	463.6	461.0	457.8	454.4	453.8
22.5°	457.8	458.4	456.4	455.0	453.1	452.4	449.1	447.1	441.9	437.9	437.2
25°	441.2	441.9	441.9	438.6	437.2	435.9	432.6	429.4	424.8	419.5	417.5
27.5°	421.4	423.4	422.1	418.8	416.1	415.5	412.2	409.5	403.6	399.0	396.4
30°	400.4	399.6	399.0	397.0	393.1	392.4	389.1	385.9	381.2	375.2	372.0
32.5°	373.2	373.2	372.6	370.6	366.8	365.4	362.8	358.8	353.5	348.9	345.6
35°	343.6	344.2	343.6	339.6	337.0	335.8	334.4	329.8	325.1	319.9	317.2
37.5°	312.6	310.6	311.2	308.0	304.8	306.0	302.0	300.1	294.8	290.9	288.2
40°	279.0	280.2	277.6	276.4	274.4	272.4	272.4	269.1	266.5	261.9	260.5
42.5°	246.0	248.0	247.4	246.0	243.4	244.0	240.8	239.4	236.1	234.1	232.1
45°	219.6	219.6	219.6	218.2	217.6	216.4	214.4	212.4	210.4	207.8	206.4
47.5°	193.9	193.9	194.5	193.2	191.9	191.2	190.0	190.0	186.6	184.0	182.6
50°	172.8	172.8	172.8	171.5	170.1	170.1	168.9	167.5	165.5	163.5	162.2
52.5°	153.6	153.6	153.6	152.4	151.6	151.0	150.4	149.8	147.1	145.8	144.4
55°	137.9	137.1	137.1	136.5	135.2	135.2	134.5	133.2	131.2	129.2	128.6
57.5°	122.0	122.6	122.0	122.0	120.8	120.8	119.4	118.8	116.8	115.4	114.1
60°	109.5	109.5	109.5	108.9	107.5	108.1	106.9	106.1	104.2	102.2	100.9
62.5°	97.0	97.6	97.6	97.0	95.6	95.6	95.0	94.2	92.4	90.4	88.4
65°	86.4	86.4	86.4	85.8	85.1	85.1	84.4	83.8	81.8	79.1	77.1
67.5°	76.5	75.9	75.9	75.9	75.1	74.5	73.9	73.2	71.2	69.2	66.6
70°	66.6	66.6	66.6	66.0	64.6	65.2	64.6	64.0	62.0	60.0	58.0
72.5°	57.4	57.4	56.8	56.0	56.0	55.4	55.4	54.8	52.8	50.1	48.1
75°	47.5	47.5	47.5	47.5	46.1	46.9	45.5	44.9	43.5	41.5	39.6
77.5°	38.9	38.9	38.9	38.2	37.6	37.6	36.9	36.2	34.2	33.0	30.4
80°	30.4	30.4	30.4	30.4	29.6	29.0	28.4	27.8	26.4	24.4	22.4
82.5°	22.4	22.4	21.8	21.8	21.8	21.1	20.5	19.8	18.5	17.1	15.9
85°	12.5	13.2	13.2	11.9	12.5	11.9	11.9	10.5	10.5	9.2	8.6
87.5°	4.6	4.0	4.0	4.0	4.0	4.0	4.0	3.2	3.2	3.2	2.6
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°	507.9	507.9	507.9	507.9	507.9	507.9	507.9	507.9	507.9	507.9	507.9
2.5°	507.9	507.1	509.8	509.8	505.9	507.9	508.5	507.1	507.1	507.9	505.9
5°	506.5	505.1	507.9	508.5	504.5	506.5	507.1	505.9	506.5	507.1	504.5
7.5°	501.9	501.9	503.9	504.5	500.6	502.5	502.5	501.2	501.9	501.9	499.9
10°	497.2	495.2	497.2	497.2	494.0	494.6	496.0	495.2	497.9	501.2	501.2
12.5°	488.8	486.8	490.0	490.0	488.0	490.6	494.0	496.0	498.6	499.9	496.0
15°	478.1	478.8	484.8	489.4	487.4	491.4	494.6	493.4	490.0	486.0	480.1
17.5°	464.2	462.4	467.6	470.2	467.6	468.9	471.5	468.9	463.6	460.4	452.4
20°	448.5	443.2	443.2	441.9	437.2	437.2	436.6	432.0	430.0	428.0	424.8
22.5°	430.6	424.8	422.8	418.8	414.9	414.1	412.2	407.6	405.0	403.6	399.6
25°	410.2	405.0	401.6	397.6	391.8	390.4	388.5	383.9	382.5	380.5	377.2
27.5°	389.1	382.5	377.9	374.0	368.6	368.0	364.0	360.8	358.1	356.8	354.1
30°	364.8	357.5	354.1	348.9	344.9	343.6	340.2	335.8	333.8	332.4	330.4
32.5°	337.6	331.8	328.4	323.9	318.5	319.2	315.2	311.2	310.0	308.6	306.6
35°	311.2	305.4	301.4	297.5	294.1	292.9	290.1	286.9	284.9	284.2	282.9
37.5°	282.2	277.6	274.4	270.4	267.8	266.5	265.1	261.9	260.5	260.5	257.9
40°	253.9	250.0	247.4	245.4	242.0	241.4	240.0	238.1	237.4	236.8	234.8
42.5°	228.2	222.9	220.9	219.6	217.6	216.4	215.6	214.4	213.6	213.0	211.0
45°	203.8	199.1	197.2	195.9	193.9	193.2	192.6	190.6	189.2	188.0	187.2
47.5°	180.0	176.8	176.1	172.8	171.5	170.1	168.9	167.5	166.9	166.2	163.5
50°	159.6	157.6	154.4	152.4	151.0	150.4	147.8	145.8	145.1	144.4	142.5
52.5°	141.1	138.5	136.5	133.2	132.5	131.2	129.9	127.2	126.0	125.2	123.4
55°	124.6	122.6	120.0	117.4	115.4	114.8	112.8	110.1	108.9	107.5	106.1
57.5°	110.8	107.5	104.9	102.2	100.9	98.9	97.0	95.6	93.6	91.6	89.8
60°	97.6	95.0	91.6	89.0	87.8	86.4	83.8	81.8	79.8	77.9	75.9
62.5°	85.1	82.5	79.1	76.5	75.1	73.9	71.2	69.2	67.2	65.2	62.6
65°	73.9	71.2	68.6	66.0	64.6	63.4	60.6	58.0	56.0	54.1	51.5
67.5°	64.6	61.4	58.8	56.0	54.8	53.4	50.8	48.8	46.1	44.1	41.5
70°	54.8	52.1	50.1	47.5	46.1	44.9	42.2	39.6	37.6	35.6	33.0
72.5°	46.1	42.9	40.9	38.2	36.9	36.2	33.6	31.6	29.6	27.0	25.0
75°	36.9	34.2	31.6	29.6	28.4	27.8	25.0	23.1	21.1	19.1	17.1
77.5°	28.4	26.4	23.8	21.8	20.5	19.8	17.1	15.1	13.2	11.9	9.9
80°	21.1	18.5	17.1	15.1	14.5	13.2	11.9	9.9	8.6	6.6	5.2
82.5°	14.5	12.5	11.2	9.9	9.2	8.6	7.2	5.9	4.6	4.0	3.2
85°	7.9	6.6	5.9	5.2	4.6	4.6	4.0	3.2	2.6	2.0	1.4
87.5°	2.6	2.0	2.0	2.0	2.0	1.4	1.4	1.4	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°	507.9	507.9	507.9	507.9	507.9	507.9	507.9	507.9	507.9	507.9	507.9
2.5°	507.1	507.1	507.1	506.5	506.5	506.5	505.9	508.5	505.9	505.1	507.1
5°	506.5	505.1	505.1	505.1	505.1	504.5	503.9	505.1	503.2	502.5	502.5
7.5°	502.5	501.9	501.9	501.2	500.6	499.9	499.2	499.9	497.9	497.2	497.2
10°	503.2	501.9	501.9	499.9	498.6	496.6	494.6	495.2	492.6	490.6	490.6
12.5°	495.2	492.0	490.0	488.0	486.8	486.0	483.4	484.8	482.1	481.5	481.5
15°	477.5	473.5	470.2	468.9	468.9	467.6	465.6	468.2	466.9	467.6	470.9
17.5°	449.8	447.8	445.9	445.1	445.9	447.1	448.5	452.4	452.4	454.4	457.8
20°	425.4	424.1	425.4	425.4	426.0	428.6	431.4	434.6	435.9	437.9	442.5
22.5°	401.6	401.6	403.0	405.0	404.2	408.9	409.5	415.5	415.5	419.5	423.4
25°	378.5	378.5	379.9	380.5	381.9	384.5	387.1	391.8	393.1	397.0	400.4
27.5°	356.1	355.5	355.5	356.1	357.5	360.8	362.1	367.4	369.4	372.0	375.2
30°	331.1	330.4	331.8	333.0	332.4	335.8	337.6	341.6	343.0	345.6	348.2
32.5°	307.4	307.4	307.4	308.6	308.6	311.2	311.2	315.9	315.9	317.9	320.5
35°	282.9	282.9	283.6	284.2	284.9	285.6	286.2	288.9	289.5	290.1	291.5
37.5°	259.9	259.1	259.9	259.9	258.5	261.1	261.1	263.8	261.9	263.8	264.5
40°	236.1	236.1	235.5	235.5	235.5	236.8	235.5	237.4	236.1	237.4	236.8
42.5°	211.8	211.8	210.4	211.8	211.0	211.0	211.0	212.4	210.4	211.8	212.4
45°	187.2	186.6	186.6	186.0	186.0	186.0	186.6	186.6	186.0	187.2	187.2
47.5°	163.5	162.9	162.9	162.9	162.9	163.5	161.6	162.9	161.6	161.6	161.6
50°	143.1	142.5	141.8	141.1	140.5	140.5	139.9	139.9	138.5	137.9	137.1
52.5°	123.4	122.6	121.4	121.4	120.8	120.0	118.0	118.0	116.1	115.4	115.4
55°	105.5	103.5	102.9	101.6	101.6	100.2	98.9	97.6	95.6	94.2	94.2
57.5°	89.0	87.0	85.8	85.1	84.4	83.1	80.5	79.8	77.1	76.5	75.9
60°	74.5	72.5	70.6	69.2	68.6	66.6	64.0	62.6	61.4	59.4	57.4
62.5°	60.6	58.8	56.0	55.4	54.1	52.1	50.1	48.1	46.9	44.9	43.5
65°	48.8	46.9	44.9	43.5	42.2	40.2	38.2	36.2	35.0	34.2	33.6
67.5°	39.6	36.9	35.0	34.2	33.0	31.6	29.6	29.0	27.8	27.8	27.8
70°	31.0	29.0	27.0	26.4	25.8	24.4	23.1	23.1	23.1	23.1	23.1
72.5°	23.1	21.8	19.8	19.1	18.5	17.8	16.5	17.1	16.5	16.5	16.5
75°	14.5	13.2	11.9	11.2	10.5	9.9	9.2	8.6	7.9	7.2	7.2
77.5°	7.9	6.6	5.9	5.2	5.2	4.6	4.0	4.0	3.2	3.2	3.2
80°	4.6	4.0	3.2	2.6	2.6	2.0	2.0	2.0	2.0	1.4	1.4
82.5°	2.6	2.0	1.4	1.4	1.4	1.4	0.6	0.6	0.6	0.6	0.6
85°	1.4	1.4	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°	507.9	507.9	507.9	507.9	507.9	507.9	507.9	507.9
2.5°	503.9	505.9	503.9	505.9	505.9	505.9	505.9	503.9
5°	500.6	501.9	499.9	501.2	501.9	501.2	501.2	499.2
7.5°	494.6	496.0	494.0	496.0	496.6	496.0	495.2	494.0
10°	488.8	489.4	487.4	488.8	490.0	490.0	489.4	487.4
12.5°	479.5	481.5	479.5	480.8	482.1	482.8	482.8	480.8
15°	468.9	472.2	470.9	472.9	474.9	475.5	475.5	474.9
17.5°	458.4	461.6	459.6	463.0	465.0	466.2	466.9	465.6
20°	443.2	447.1	445.9	448.5	451.1	453.1	453.1	451.1
22.5°	423.4	428.6	428.0	430.0	433.2	434.0	435.2	434.0
25°	401.6	405.6	405.0	406.9	410.9	410.9	411.5	411.5
27.5°	376.6	380.5	379.9	381.2	383.9	384.5	385.1	383.9
30°	349.5	351.5	351.5	353.5	355.5	356.1	356.1	354.1
32.5°	319.9	322.5	323.9	323.1	325.1	326.5	325.8	325.8
35°	292.9	293.5	294.1	294.8	295.5	296.8	295.5	294.8
37.5°	263.8	265.8	264.5	265.8	267.1	266.5	265.8	265.8
40°	237.4	238.1	236.8	238.1	238.8	238.8	238.8	237.4
42.5°	211.0	212.4	211.0	212.4	212.4	212.4	212.4	211.8
45°	184.6	186.0	186.0	186.6	186.6	186.0	186.0	186.0
47.5°	160.2	161.6	160.2	161.6	162.2	160.9	160.9	160.9
50°	137.1	136.5	136.5	137.1	137.1	137.1	137.1	136.5
52.5°	113.4	114.1	114.1	114.1	114.8	114.1	114.8	114.8
55°	93.0	93.0	93.0	93.6	93.0	93.0	93.6	94.2
57.5°	74.5	73.9	73.2	73.2	73.9	73.2	73.2	73.2
60°	57.4	56.8	56.0	56.0	56.0	56.0	56.0	55.4
62.5°	42.9	42.9	42.9	43.5	43.5	43.5	43.5	44.1
65°	34.2	34.2	34.2	34.2	34.2	34.2	34.2	35.0
67.5°	27.8	27.8	27.8	28.4	28.4	28.4	28.4	28.4
70°	23.1	23.1	23.8	23.1	23.8	23.8	23.8	23.8
72.5°	15.9	15.9	15.9	15.9	15.9	15.1	15.9	15.1
75°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	5.9
77.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
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)