

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P856856

Luminaire Tested: **LX4C10D010 EX4C109840 4LBSWNH**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P856856
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P251634)
Test Lab: INNOVATION CENTER
Issue Date: 2/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C10D010 EX4C109840 4LBSWNH
Description:
Light Source: -
Ballast/Driver: -

Summary

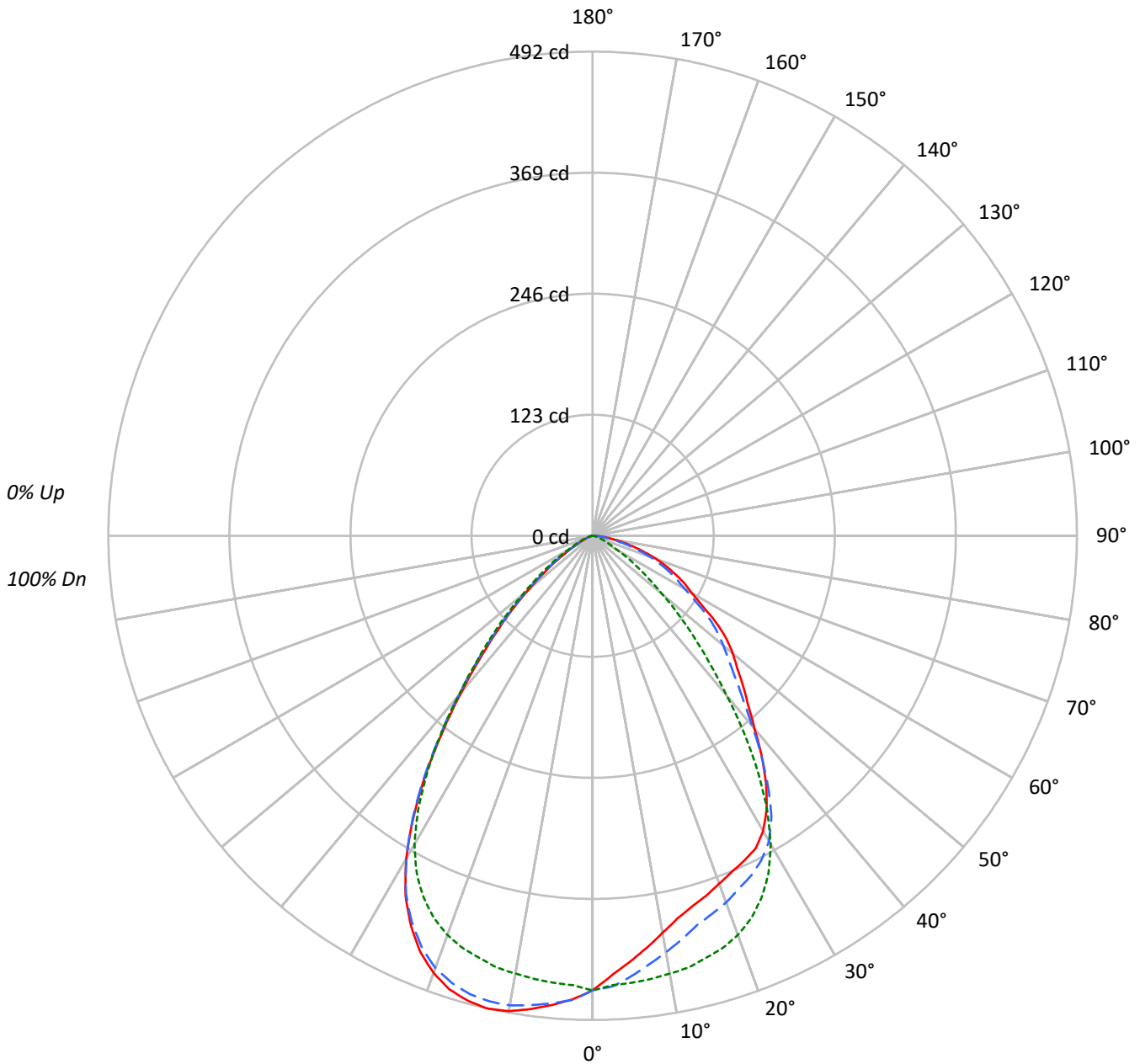
Lumens per Lamp: N/A
Luminaire Lumens: 809.7 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.8
Input Voltage (V):
Input Current (A_{in}): 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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70			70
4	90	80	72	67	88	78	72	66	76	70	66	74	69	65	72	68	64	62			62
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56			56
6	78	67	59	53	76	66	59	53	64	58	53	62	57	52	61	56	52	50			50
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	56	51	47	46			46
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42			42
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38			38
10	61	49	42	37	59	48	42	37	47	41	37	47	41	37	46	40	37	35			35

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	56746	56746	56746
5°	53584	56223	59022
10°	51097	56361	61189
15°	49590	56484	62233
20°	49184	56426	61787
25°	49382	55035	59223
30°	49140	51339	53694
35°	46058	43838	44288
40°	41040	33983	33229
45°	37545	25331	23785
50°	35492	17737	16035
55°	32642	11973	10067
60°	28527	7003	5578
65°	26977	4477	3110
70°	24605	3197	1940
75°	20363	2231	1377
80°	16060	1273	849
85°	14378	846	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.6	5.4
10°-20°	125.2	15.5
20°-30°	185.6	22.9
30°-40°	185.9	23.0
40°-50°	129.9	16.0
50°-60°	77.3	9.5
60°-70°	40.3	5.0
70°-80°	17.9	2.2
80°-90°	3.9	0.5
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°	354.5	43.8
0°-40°	540.3	66.7
0°-60°	747.5	92.3
0°-90°	809.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	809.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	462	462	462	462	462	
5°	434	449	456	477	479	41
15°	390	410	444	482	489	110
25°	364	381	406	434	437	168
35°	307	311	292	298	295	190
45°	216	205	146	141	137	168
55°	152	143	56	49	47	135
65°	93	85	15	11	11	92
75°	43	38	5	3	3	46
85°	10	8	1	1	0	11
90°	0	0	0	0	0	



TEST NUMBER: P856856

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9
2.5°	447.0	452.4	447.0	448.8	455.9	449.4	453.0	453.0	451.2	455.3	458.4
5°	434.5	439.9	434.5	436.9	444.6	438.1	442.3	441.1	441.7	445.2	449.4
7.5°	422.1	426.2	421.4	424.5	431.6	426.2	429.7	429.7	430.4	435.7	439.3
10°	409.6	413.1	409.6	411.9	419.7	414.9	417.2	417.9	419.7	424.5	429.7
12.5°	398.3	401.2	397.6	401.2	407.7	403.0	406.0	406.5	408.3	413.7	419.7
15°	389.9	392.9	389.3	392.3	398.3	394.7	397.0	398.3	399.4	404.1	409.6
17.5°	383.4	385.8	382.7	386.3	391.1	386.9	390.5	390.5	392.3	397.0	403.0
20°	376.2	378.5	376.2	379.2	384.5	381.0	384.0	384.0	385.8	391.1	396.5
22.5°	369.6	370.9	369.6	372.0	377.4	374.4	376.2	376.8	378.5	383.4	388.1
25°	364.3	366.7	365.5	367.8	371.4	368.5	370.3	370.9	372.7	376.8	381.0
27.5°	358.3	359.6	358.3	361.3	364.3	361.9	363.7	363.1	364.3	367.8	371.4
30°	346.4	347.6	347.6	349.4	351.8	350.6	352.4	350.6	351.8	354.7	358.3
32.5°	329.1	329.8	330.4	332.2	334.0	332.2	333.3	333.3	333.3	335.7	338.1
35°	307.1	308.4	307.7	309.0	310.7	310.1	310.1	309.5	308.4	309.5	310.7
37.5°	282.1	280.4	280.4	282.1	283.3	281.0	282.1	281.0	281.0	281.5	281.5
40°	255.9	254.1	255.9	256.6	257.2	255.9	255.4	254.1	252.4	253.0	251.8
42.5°	233.9	232.7	233.4	233.4	233.9	232.7	233.4	231.0	229.2	228.0	226.2
45°	216.1	214.3	216.1	214.9	214.9	214.3	213.7	212.5	210.1	208.3	205.4
47.5°	199.4	199.4	200.0	200.0	200.0	198.8	198.8	196.5	194.0	191.6	187.5
50°	185.7	184.5	186.9	186.9	185.1	184.5	185.1	182.2	180.4	177.4	173.2
52.5°	170.9	170.9	171.4	171.4	170.9	169.6	170.2	167.8	166.0	163.1	158.9
55°	152.4	151.2	153.0	153.0	152.4	151.8	152.4	150.6	148.8	146.4	142.9
57.5°	131.5	130.9	132.2	132.8	131.5	131.5	132.2	130.4	129.7	127.3	123.8
60°	116.1	115.5	116.6	117.3	116.1	116.1	116.1	113.7	112.5	110.1	107.7
62.5°	105.3	104.8	105.9	105.3	104.8	104.2	104.8	102.4	101.2	98.8	96.4
65°	92.8	93.5	94.1	94.1	93.5	92.8	92.8	91.7	90.5	88.1	85.2
67.5°	81.0	81.0	81.6	82.1	81.6	81.6	81.6	79.7	78.6	76.8	73.2
70°	68.5	67.9	69.6	69.6	68.5	69.0	68.5	67.9	66.7	64.3	61.4
72.5°	55.4	55.4	55.9	55.9	55.4	55.4	55.4	54.8	53.0	51.8	48.8
75°	42.9	42.9	43.4	44.1	42.9	42.9	43.4	42.3	41.1	39.3	37.5
77.5°	32.2	31.6	32.2	32.2	31.6	31.6	31.6	30.9	30.3	28.5	26.8
80°	22.7	22.0	22.7	22.7	22.7	22.0	22.0	21.4	21.4	20.2	18.5
82.5°	15.4	14.9	15.4	15.4	15.4	14.9	14.9	14.9	14.3	13.7	12.5
85°	10.2	9.5	9.5	10.2	9.5	9.5	9.5	9.5	8.9	8.3	7.8
87.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.2	4.2	4.2	3.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P856856

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9
2.5°	455.9	454.8	458.4	457.2	457.7	454.8	459.5	457.2	460.1	457.2	463.1
5°	448.2	447.0	452.4	451.8	452.4	450.1	455.3	454.8	458.4	455.9	462.5
7.5°	439.9	438.7	444.6	445.2	446.5	444.1	451.2	451.2	454.8	454.2	461.3
10°	430.4	431.0	436.9	438.1	440.5	439.3	445.9	447.7	452.4	451.8	460.8
12.5°	421.4	421.4	429.2	431.6	433.3	432.8	440.5	442.8	448.2	449.4	457.7
15°	412.5	413.1	420.3	423.8	426.2	425.6	433.9	436.9	443.5	444.1	454.2
17.5°	405.4	404.8	412.5	415.5	419.0	418.5	427.4	431.0	437.5	439.3	448.8
20°	399.4	398.8	406.0	409.6	411.9	411.4	420.3	424.5	430.4	431.6	441.1
22.5°	392.3	391.1	398.3	401.2	403.6	403.0	410.7	413.7	419.7	420.8	429.7
25°	384.0	382.7	389.3	391.1	392.9	391.7	398.3	400.0	404.8	406.0	414.9
27.5°	374.4	371.4	376.8	376.8	378.0	376.2	381.0	382.7	386.9	386.9	395.2
30°	359.6	355.4	358.3	357.8	358.3	356.0	358.9	359.6	362.5	361.9	367.8
32.5°	338.7	332.7	334.6	332.7	331.0	327.4	331.0	329.8	332.2	329.8	335.1
35°	310.1	304.2	303.5	301.2	299.4	296.4	296.4	293.5	294.1	292.3	295.9
37.5°	279.2	271.4	270.3	265.5	262.5	259.0	259.0	256.6	253.6	252.4	255.4
40°	248.8	240.5	237.6	229.8	226.8	223.2	220.8	217.9	216.7	211.9	214.3
42.5°	222.7	213.7	207.2	198.8	195.8	190.5	186.9	183.3	181.6	176.2	178.6
45°	200.6	189.9	182.7	172.0	167.8	161.9	156.6	152.4	148.2	145.8	144.6
47.5°	182.2	170.9	161.3	149.4	142.9	137.5	130.4	126.2	120.8	117.9	116.1
50°	166.7	154.2	143.5	129.7	123.2	117.3	108.9	102.4	97.6	92.8	91.7
52.5°	153.0	139.9	128.0	112.5	104.8	97.6	88.7	81.6	77.4	72.1	71.4
55°	136.9	125.6	112.5	96.4	88.7	81.6	72.1	64.9	59.6	55.9	54.8
57.5°	119.7	108.9	96.4	80.3	72.6	64.9	55.9	49.4	44.7	41.6	41.1
60°	103.6	93.5	81.6	65.5	57.7	51.2	41.6	35.1	30.9	28.5	27.4
62.5°	91.7	82.1	70.8	55.9	48.8	42.3	33.4	27.4	23.8	21.4	20.2
65°	80.3	70.8	60.7	47.0	41.1	35.1	26.8	21.4	17.8	15.4	14.3
67.5°	68.5	60.1	50.6	39.3	33.4	28.5	21.4	16.7	13.7	11.9	10.7
70°	56.5	48.8	41.1	31.6	27.4	22.7	16.7	13.1	10.2	8.9	7.8
72.5°	44.7	38.7	32.2	24.4	20.9	17.8	13.1	9.5	7.8	6.6	5.4
75°	33.4	29.2	23.8	18.5	15.4	13.1	9.5	7.1	6.0	4.7	4.2
77.5°	23.8	20.2	16.7	12.5	11.3	9.5	6.6	5.4	4.2	2.9	2.4
80°	16.1	14.3	11.3	8.9	7.1	6.6	4.7	3.6	2.4	1.8	1.8
82.5°	10.7	8.9	7.1	5.4	4.7	4.2	2.9	2.4	1.8	1.2	1.2
85°	6.6	5.4	4.2	2.9	2.9	2.4	1.8	1.2	0.6	0.6	0.6
87.5°	2.9	2.4	1.8	1.2	1.2	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	0.0	0.0	0.0



TEST NUMBER: P856856

CATALOG NUMBER: LX4C10D010 EX4C109840 4LBSWNH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9
2.5°	467.9	464.3	461.9	464.9	466.1	464.3	466.1	469.1	472.1	472.6	464.3
5°	468.5	464.9	463.7	467.3	467.9	467.3	469.1	473.2	476.8	478.0	469.7
7.5°	468.5	466.1	465.5	469.7	470.2	469.7	472.6	477.3	481.0	483.3	475.0
10°	467.3	466.1	466.6	470.2	471.5	471.5	475.7	481.0	484.6	486.9	478.6
12.5°	465.5	465.5	465.5	469.7	470.8	471.5	475.0	482.2	484.6	488.1	479.8
15°	462.5	462.5	462.5	466.6	468.5	468.5	472.6	479.2	482.2	485.7	477.3
17.5°	457.2	457.2	457.7	461.3	463.1	463.1	467.3	474.4	476.2	480.4	472.1
20°	449.4	449.4	450.1	453.6	455.3	454.2	459.5	465.5	467.3	470.8	462.5
22.5°	438.1	438.1	438.1	441.7	442.8	442.3	447.7	453.0	453.0	457.7	448.8
25°	421.4	422.6	421.4	425.0	426.2	425.6	430.4	435.2	433.9	439.3	430.4
27.5°	401.2	400.6	400.6	403.6	403.6	403.0	406.5	411.9	410.7	414.3	406.0
30°	373.2	375.0	372.0	376.2	374.4	373.2	375.6	380.3	378.5	381.6	375.0
32.5°	341.1	338.7	338.7	338.7	339.8	336.9	339.3	341.7	339.8	342.9	335.7
35°	298.8	299.4	297.7	298.2	298.8	295.3	297.7	300.0	297.7	299.4	292.8
37.5°	256.6	257.2	253.0	255.4	253.0	251.8	254.1	255.4	253.0	254.8	247.6
40°	214.3	213.1	212.5	212.5	213.1	210.1	211.9	213.7	211.9	213.1	206.5
42.5°	177.4	176.8	175.6	176.2	174.4	173.8	174.4	176.2	174.4	175.6	170.9
45°	145.3	144.0	142.2	142.9	142.9	139.9	141.7	142.9	141.1	141.7	137.5
47.5°	115.5	113.7	113.7	113.1	113.1	111.9	113.7	113.1	111.3	112.5	108.3
50°	89.9	88.7	88.7	88.7	88.7	86.9	87.5	88.7	86.9	86.9	84.5
52.5°	70.3	68.5	67.2	67.2	67.2	66.7	66.7	67.2	65.5	65.5	64.9
55°	53.0	52.3	50.6	50.6	50.6	48.8	49.4	49.4	48.8	48.8	47.0
57.5°	39.3	37.5	36.3	36.3	35.1	35.1	34.5	35.1	33.9	33.9	32.7
60°	26.2	25.0	24.4	23.8	23.8	23.2	23.8	23.2	23.2	22.7	22.0
62.5°	19.1	17.8	16.7	16.7	16.7	16.1	16.1	16.1	16.1	16.1	15.4
65°	13.7	12.5	12.5	11.9	11.9	11.3	11.3	11.3	11.3	11.3	10.7
67.5°	9.5	8.9	8.3	8.3	8.3	8.3	8.3	8.3	7.8	7.8	7.8
70°	7.1	6.6	6.0	6.0	6.0	6.0	6.0	5.4	6.0	6.0	5.4
72.5°	4.7	4.7	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
75°	3.6	3.6	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
77.5°	2.4	2.4	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
80°	1.8	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
82.5°	1.2	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
85°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P856856

CATALOG NUMBER: LX4C10D010 EX4C109840 4LBSWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9
2.5°	473.2	472.6	471.5	473.2	468.5	466.6	466.1	471.5
5°	479.8	478.6	478.6	480.4	475.0	473.8	472.6	478.6
7.5°	485.7	484.6	484.6	486.4	481.5	480.4	479.2	485.1
10°	489.3	489.3	489.3	490.5	486.4	485.1	484.6	490.5
12.5°	491.1	491.1	490.5	492.9	487.5	487.5	486.4	492.2
15°	488.7	488.7	488.7	490.5	485.7	484.6	484.6	489.3
17.5°	482.8	482.8	482.2	483.9	478.6	478.6	478.0	483.3
20°	473.8	473.8	472.6	475.0	469.7	467.9	467.3	472.6
22.5°	459.5	459.0	458.4	459.5	454.8	453.6	453.0	457.7
25°	441.1	440.5	439.3	440.5	435.2	433.3	433.3	436.9
27.5°	414.9	414.9	413.1	414.9	409.0	408.3	407.7	411.9
30°	382.7	380.3	379.2	381.6	375.6	375.6	374.4	378.5
32.5°	342.9	340.5	339.8	341.1	335.7	334.0	336.3	338.7
35°	297.0	297.7	295.3	295.3	290.5	291.1	291.7	295.3
37.5°	253.0	251.8	251.2	251.8	248.3	247.0	245.9	249.4
40°	211.9	208.9	208.3	208.3	205.4	204.7	205.4	207.2
42.5°	173.2	172.6	170.2	171.4	168.5	169.6	169.1	169.1
45°	139.9	140.4	138.1	139.9	137.5	135.7	135.7	136.9
47.5°	110.8	110.8	110.1	110.1	108.3	108.9	107.7	109.5
50°	85.7	85.7	84.5	85.2	83.9	83.9	83.3	83.9
52.5°	65.5	64.9	64.9	64.3	63.1	63.7	64.3	63.1
55°	47.6	48.2	47.0	47.6	46.5	47.0	46.5	47.0
57.5°	32.7	33.4	32.2	33.4	32.2	32.7	32.2	32.2
60°	22.7	22.7	22.0	22.7	22.0	22.0	21.4	22.7
62.5°	15.4	15.4	15.4	15.4	15.4	14.9	15.4	15.4
65°	11.3	10.7	10.7	10.7	10.7	10.7	10.7	10.7
67.5°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
70°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
72.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
75°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
77.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
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°	0.6	0.6	0.6	0.0	0.6	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	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)