

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: P857020

Luminaire Tested: **LX4C15D010 EX4C159827 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P857020
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-2)
Test Lab: INNOVATION CENTER
Issue Date: 2/14/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C15D010 EX4C159827 4LBLWWH
Description:
Light Source: -
Ballast/Driver: -

Summary

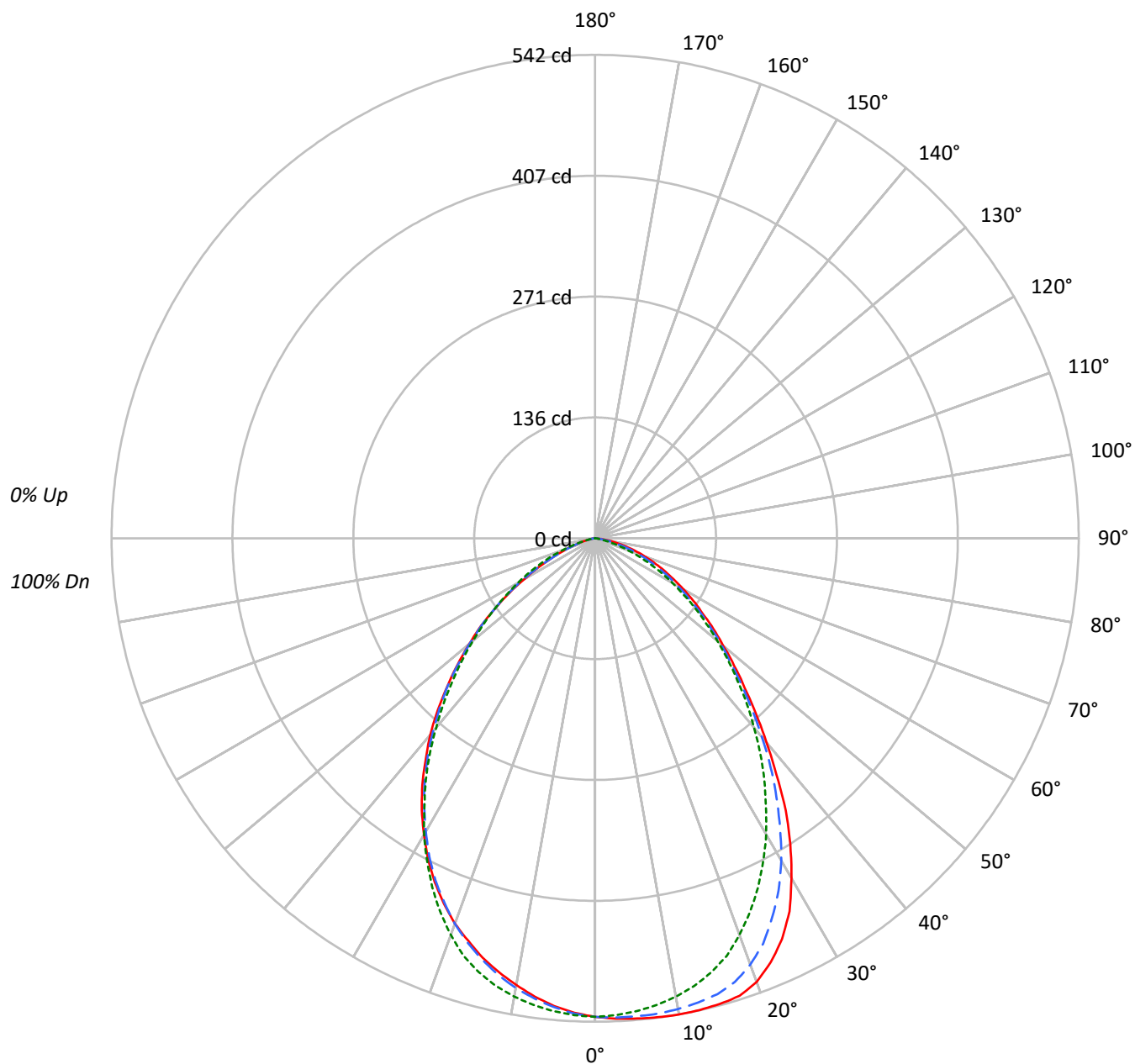
Lumens per Lamp: N/A
Luminaire Lumens: 1011.2 lumens
Efficiency: N/A
Efficacy: 64.0 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 15.8
Input Voltage (V):
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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	94	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	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68		
4	88	78	70	64	86	77	69	64	74	68	63	72	67	62	70	65	62	60		
5	82	71	63	57	80	69	62	57	67	61	56	66	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	44	43		
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39		
9	62	50	43	38	61	50	42	37	48	42	37	47	41	37	47	41	37	35		
10	59	47	39	34	58	46	39	34	45	39	34	44	38	34	43	38	34	32		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	65923	65923	65923
5°	66656	65645	64929
10°	67639	65094	63447
15°	68745	64052	61927
20°	69187	61865	60087
25°	67194	58532	57637
30°	62446	54389	54417
35°	55896	49597	50632
40°	47872	44456	46075
45°	41194	39196	40655
50°	35817	34116	35148
55°	31507	29365	29087
60°	28035	24497	22556
65°	24593	19622	16337
70°	21157	13865	11063
75°	17136	8022	6456
80°	12239	3537	3184
85°	4652	1551	1551



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.6	5.0
10°-20°	143.1	14.2
20°-30°	204.4	20.2
30°-40°	213.8	21.1
40°-50°	179.2	17.7
50°-60°	125.4	12.4
60°-70°	68.3	6.8
70°-80°	23.7	2.3
80°-90°	2.7	0.3
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°	398.1	39.4
0°-40°	612.0	60.5
0°-60°	916.5	90.6
0°-90°	1011.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1011.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	537	537	537	537	537	
5°	540	538	532	528	526	52
15°	540	529	504	489	487	153
25°	496	469	432	423	425	226
35°	373	354	331	333	338	231
45°	237	232	226	233	234	184
55°	147	142	137	137	136	133
65°	85	77	68	57	56	84
75°	36	29	17	14	14	39
85°	3	2	1	1	1	6
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°	536.6	536.6	536.6	536.6	536.6	536.6	536.6	536.6	536.6	536.6	536.6
2.5°	539.1	538.4	538.6	538.6	538.6	538.4	538.6	538.4	538.4	538.3	537.8
5°	540.5	540.1	540.1	540.1	539.9	539.7	539.7	539.5	539.1	538.9	538.0
7.5°	541.6	541.1	541.1	540.9	540.8	540.5	540.3	539.7	539.1	538.6	537.6
10°	542.2	541.6	541.6	541.1	540.8	540.5	540.1	539.2	538.4	537.5	535.9
12.5°	541.7	541.1	540.9	540.5	539.7	539.2	538.9	537.8	536.4	535.0	533.1
15°	540.5	540.1	539.7	539.1	538.0	537.5	537.0	535.3	533.5	531.4	529.2
17.5°	538.0	537.5	536.6	535.8	534.3	533.7	532.6	530.6	527.9	525.1	521.5
20°	529.2	528.7	527.9	526.5	524.2	523.4	521.9	519.3	515.8	512.2	508.6
22.5°	514.5	513.9	512.7	511.4	509.4	507.9	506.7	502.9	499.0	495.3	491.8
25°	495.7	495.1	493.5	491.8	489.7	487.2	486.0	483.1	479.2	474.5	469.3
27.5°	471.6	469.5	468.9	467.0	464.0	463.1	461.3	457.6	453.8	449.7	445.3
30°	440.2	440.2	439.0	438.1	435.3	434.5	432.4	428.5	426.3	420.6	417.3
32.5°	407.0	406.5	405.6	404.9	403.2	401.8	399.8	397.7	393.2	390.2	385.7
35°	372.7	370.3	370.7	369.4	368.4	366.8	366.5	364.3	360.2	358.5	354.4
37.5°	333.7	332.7	334.1	332.3	331.3	331.5	329.8	328.3	326.7	323.8	323.0
40°	298.5	299.3	299.0	297.4	298.2	297.2	295.5	294.1	293.3	291.4	290.8
42.5°	266.8	265.6	265.2	265.2	265.4	265.4	264.6	263.5	263.5	261.7	259.9
45°	237.1	237.1	236.8	237.9	236.1	236.1	235.5	235.2	234.4	234.0	231.8
47.5°	211.5	211.3	211.2	210.9	210.7	210.7	209.5	208.4	208.2	207.0	205.7
50°	187.4	188.6	188.2	187.2	186.7	187.0	186.2	185.6	185.3	183.3	183.4
52.5°	167.2	166.9	167.4	166.8	165.7	166.0	165.1	164.3	163.5	162.4	161.6
55°	147.1	148.2	147.8	147.1	147.0	146.5	145.9	144.9	144.6	142.4	142.2
57.5°	130.5	130.2	129.8	128.8	128.6	128.0	128.0	127.2	125.9	124.7	123.6
60°	114.1	114.1	113.5	113.3	112.4	112.3	112.1	111.2	109.8	108.8	107.1
62.5°	98.4	98.9	98.4	97.8	97.2	96.4	96.0	95.3	94.1	93.1	91.7
65°	84.6	84.4	84.2	83.4	83.2	82.3	82.1	80.9	79.6	78.8	77.2
67.5°	71.4	70.8	70.8	70.4	70.0	69.4	68.9	67.7	66.3	65.5	63.8
70°	58.9	58.4	58.4	58.4	57.3	56.7	56.5	55.9	53.9	53.1	51.4
72.5°	47.3	47.1	46.8	46.2	45.6	45.6	44.8	43.5	42.5	41.5	40.2
75°	36.1	36.6	36.1	35.3	35.0	34.7	34.1	33.0	32.0	30.8	29.3
77.5°	26.4	26.0	25.6	25.6	25.1	24.3	24.2	23.4	22.1	21.2	19.8
80°	17.3	17.1	16.7	16.3	16.1	15.9	15.7	14.9	13.6	13.0	11.8
82.5°	9.5	9.3	9.3	9.1	8.5	8.5	8.3	7.4	6.8	6.4	5.8
85°	3.3	3.3	3.3	3.1	3.1	3.1	2.9	2.7	2.5	2.2	1.9
87.5°	0.4	0.2	0.4	0.2	0.4	0.2	0.2	0.2	0.2	0.2	0.2
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	536.6	536.6	536.6	536.6	536.6	536.6	536.6	536.6	536.6	536.6	536.6
2.5°	537.5	537.0	536.8	536.6	536.4	536.2	535.9	535.6	535.3	535.1	534.7
5°	537.5	536.6	536.2	535.6	535.1	534.7	534.2	533.5	532.9	532.3	531.7
7.5°	536.6	535.3	534.5	533.3	532.9	532.3	531.0	530.2	529.2	527.9	526.5
10°	534.5	533.1	531.4	529.8	529.2	528.1	526.5	525.1	523.4	521.8	520.2
12.5°	531.2	529.0	526.9	524.6	523.4	522.4	520.1	518.0	516.0	514.1	511.6
15°	526.3	523.5	520.9	517.8	516.3	515.2	511.9	509.4	506.1	503.6	501.1
17.5°	518.2	514.1	510.8	506.9	504.8	503.4	500.4	496.5	493.5	490.7	487.9
20°	504.4	500.4	495.9	491.6	489.3	487.4	483.3	479.2	476.1	473.2	470.1
22.5°	486.3	481.3	478.0	472.6	470.8	468.5	463.5	459.8	456.3	453.5	450.5
25°	464.2	459.8	455.2	450.3	448.0	445.3	441.2	437.3	435.1	431.8	428.2
27.5°	438.7	435.3	429.6	425.4	423.0	421.0	417.1	413.6	410.3	408.0	404.7
30°	411.9	407.8	402.9	398.3	397.1	394.6	391.1	388.4	384.9	383.4	382.0
32.5°	382.4	377.7	374.0	371.1	368.6	366.5	364.6	360.4	359.7	356.0	355.6
35°	350.2	348.1	344.7	342.2	340.1	338.7	335.6	333.5	331.3	330.7	329.1
37.5°	319.9	317.4	314.1	311.8	310.4	310.1	307.9	306.7	305.1	304.2	302.6
40°	288.1	287.1	284.2	283.8	281.5	281.3	280.1	278.6	277.2	277.2	277.3
42.5°	258.8	257.5	256.3	254.9	253.6	253.6	253.0	252.6	252.2	251.6	252.6
45°	231.3	229.7	228.9	227.4	228.0	226.8	226.4	226.4	225.8	225.6	227.0
47.5°	205.7	203.9	203.0	202.7	202.7	202.9	201.0	201.6	201.4	201.8	202.4
50°	182.5	180.8	179.5	179.5	179.8	179.0	178.1	178.7	178.1	178.5	180.0
52.5°	160.8	159.1	158.5	158.5	157.3	157.0	157.5	156.7	156.9	157.0	157.8
55°	140.7	139.7	138.7	137.7	137.9	137.4	136.6	136.4	136.8	137.1	138.0
57.5°	122.8	121.4	119.9	119.5	119.0	119.0	118.1	117.8	118.2	117.3	117.3
60°	105.7	104.9	103.0	102.4	102.4	101.3	100.5	100.9	99.9	99.7	99.9
62.5°	89.8	89.2	87.9	86.7	86.2	85.9	84.8	84.4	84.0	83.2	82.0
65°	76.0	74.5	73.0	72.2	71.6	70.6	70.0	69.1	67.9	67.5	66.3
67.5°	62.2	60.6	59.2	58.6	58.0	57.3	56.4	55.3	53.9	52.3	50.7
70°	49.9	48.1	47.3	45.6	45.2	44.4	42.9	41.9	40.5	38.6	37.2
72.5°	38.2	36.9	35.7	34.2	33.3	32.6	31.4	29.7	28.1	27.0	25.6
75°	27.5	26.8	25.1	23.5	23.1	22.3	20.9	19.8	18.5	16.9	15.7
77.5°	18.5	17.3	16.3	14.9	14.4	13.6	12.8	11.8	11.0	9.9	9.1
80°	11.0	9.9	9.3	8.3	7.8	7.4	6.8	6.0	5.4	5.0	4.7
82.5°	5.4	4.5	4.4	3.7	3.5	3.3	2.9	2.7	2.2	2.2	2.2
85°	1.9	1.4	1.4	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.2
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°	536.6	536.6	536.6	536.6	536.6	536.6	536.6	536.6	536.6	536.6	536.6
2.5°	534.5	534.3	534.2	533.9	533.9	533.7	533.7	533.5	533.5	533.3	533.3
5°	530.8	530.2	529.8	529.3	529.3	528.7	528.4	527.9	527.7	527.7	527.3
7.5°	525.7	524.8	524.0	523.4	523.2	522.1	521.3	521.3	520.5	520.1	519.7
10°	518.8	517.4	516.1	515.5	514.7	514.1	513.0	512.5	511.9	510.8	510.6
12.5°	509.5	508.6	506.7	505.8	505.4	504.2	502.5	501.7	501.5	500.7	500.1
15°	499.0	496.8	495.1	494.1	494.1	492.0	491.2	489.9	489.1	488.5	488.3
17.5°	485.4	483.1	481.5	480.0	479.7	478.0	476.7	476.3	475.3	475.7	474.7
20°	467.9	466.0	464.8	462.9	462.9	461.8	461.5	460.4	460.0	459.6	460.0
22.5°	449.1	446.9	444.7	444.5	444.5	443.1	442.9	442.7	441.9	442.5	442.3
25°	427.0	425.4	424.1	423.9	423.9	423.0	422.2	422.7	423.3	423.0	423.7
27.5°	404.0	402.4	402.0	401.8	401.4	401.2	401.6	401.6	402.3	403.1	403.9
30°	379.3	378.9	378.3	378.1	377.7	378.7	379.1	379.7	379.5	380.8	381.6
32.5°	354.6	353.8	353.5	353.9	354.6	354.4	355.6	356.0	356.4	357.9	358.5
35°	329.6	329.4	329.0	329.0	329.1	330.8	330.8	332.3	333.1	333.5	335.1
37.5°	302.7	303.5	304.0	304.6	304.8	305.4	305.9	307.3	308.1	309.0	309.8
40°	278.2	277.8	279.7	278.4	278.8	280.7	281.5	281.3	282.5	283.8	284.6
42.5°	252.0	252.6	253.0	253.4	254.5	254.7	255.7	257.2	257.5	259.0	259.4
45°	226.6	226.8	227.7	228.5	229.1	230.7	231.1	231.8	233.0	233.0	233.6
47.5°	202.7	203.5	203.5	204.7	205.7	205.5	207.0	207.4	207.2	208.2	208.7
50°	179.8	181.0	180.8	181.6	182.0	182.3	183.4	183.9	183.1	184.1	184.3
52.5°	157.8	158.5	159.4	159.5	159.1	160.2	159.7	160.6	160.3	161.1	160.3
55°	137.9	137.7	137.7	138.0	137.7	138.0	138.5	137.7	137.1	137.9	137.7
57.5°	117.8	117.8	117.4	118.1	117.4	116.8	116.6	116.0	115.4	115.4	115.1
60°	99.1	98.6	97.8	97.6	97.6	96.6	96.1	95.3	95.3	94.5	93.7
62.5°	81.5	80.5	79.9	79.9	79.5	78.4	76.6	75.4	74.9	73.7	73.5
65°	65.0	63.9	63.4	62.2	61.1	60.6	58.9	57.3	56.7	55.6	55.7
67.5°	49.9	48.3	46.5	45.6	45.0	43.5	42.9	41.9	41.3	41.3	41.3
70°	35.9	34.4	32.6	32.0	31.6	30.3	29.7	29.5	30.1	30.0	30.1
72.5°	24.2	22.7	21.8	21.5	21.0	20.4	20.9	21.0	20.6	20.9	21.0
75°	14.6	14.3	13.6	13.4	13.4	13.6	13.4	13.4	13.6	13.6	13.8
77.5°	8.5	8.0	8.0	7.8	8.3	8.0	8.0	8.0	8.3	8.3	8.3
80°	4.5	4.5	4.5	4.5	4.7	4.5	4.7	4.7	4.7	4.7	4.7
82.5°	2.2	2.2	2.2	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.2
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
87.5°	0.2	0.4	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2
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°	536.6	536.6	536.6	536.6	536.6	536.6	536.6	536.6
2.5°	532.9	532.9	532.9	532.5	532.6	532.6	532.5	532.5
5°	527.1	526.9	526.5	526.5	526.0	526.5	526.3	526.5
7.5°	519.3	519.3	518.6	518.6	518.5	518.2	518.0	518.2
10°	510.0	510.0	509.5	509.4	509.5	508.7	508.7	508.6
12.5°	499.6	499.2	498.8	499.0	498.8	498.2	497.9	498.2
15°	487.7	487.1	487.2	486.6	486.6	486.4	486.9	486.9
17.5°	474.5	474.0	473.6	473.9	473.4	473.6	473.4	473.2
20°	459.8	459.6	459.6	458.8	459.0	458.8	459.0	459.6
22.5°	442.9	442.7	442.9	442.3	442.7	442.7	443.3	443.3
25°	424.3	424.1	424.6	424.7	424.9	425.5	424.9	425.2
27.5°	403.7	404.3	404.9	405.1	405.9	405.3	404.9	405.6
30°	382.8	382.8	382.6	383.4	384.1	384.7	383.6	383.6
32.5°	358.9	359.9	359.9	360.2	360.7	360.7	360.7	361.6
35°	336.0	336.6	336.8	336.0	336.4	336.2	337.6	337.6
37.5°	310.4	310.4	310.6	312.0	312.0	311.4	311.8	311.8
40°	286.1	286.2	285.4	285.8	286.9	286.4	286.9	287.3
42.5°	259.4	260.8	260.0	260.5	260.2	260.5	260.7	260.7
45°	234.0	234.4	234.4	234.6	235.1	235.5	234.3	234.0
47.5°	209.3	209.5	210.1	209.0	210.3	209.0	210.3	208.8
50°	184.3	185.1	184.5	184.9	184.3	184.3	184.1	183.9
52.5°	160.6	160.3	160.3	160.2	160.2	160.6	160.2	160.8
55°	136.8	137.1	136.6	136.4	136.2	136.8	136.2	135.8
57.5°	114.3	114.8	114.0	114.3	112.9	113.5	113.7	114.0
60°	93.5	92.8	92.8	92.0	92.0	92.7	91.8	91.8
62.5°	72.4	72.9	72.2	73.0	73.0	73.9	73.5	73.9
65°	55.6	55.7	55.9	55.9	55.9	57.2	56.7	56.2
67.5°	41.9	42.1	42.3	42.1	42.7	42.3	42.3	42.5
70°	30.3	30.6	30.8	30.8	30.6	30.8	30.8	30.8
72.5°	21.0	21.2	21.0	21.2	21.5	21.2	21.2	21.5
75°	13.8	13.8	13.6	13.6	13.6	13.6	13.8	13.6
77.5°	8.0	8.3	8.0	8.3	8.3	8.3	8.3	8.3
80°	4.7	4.7	4.7	4.5	4.7	4.7	4.7	4.5
82.5°	2.5	2.5	2.2	2.2	2.5	2.5	2.5	2.5
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
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)