

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: P857072

Luminaire Tested: **LX4C15D010 EX4C159850 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P857072
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 EX4C159850 4LBLWWH
Description:
Light Source: -
Ballast/Driver: -

Summary

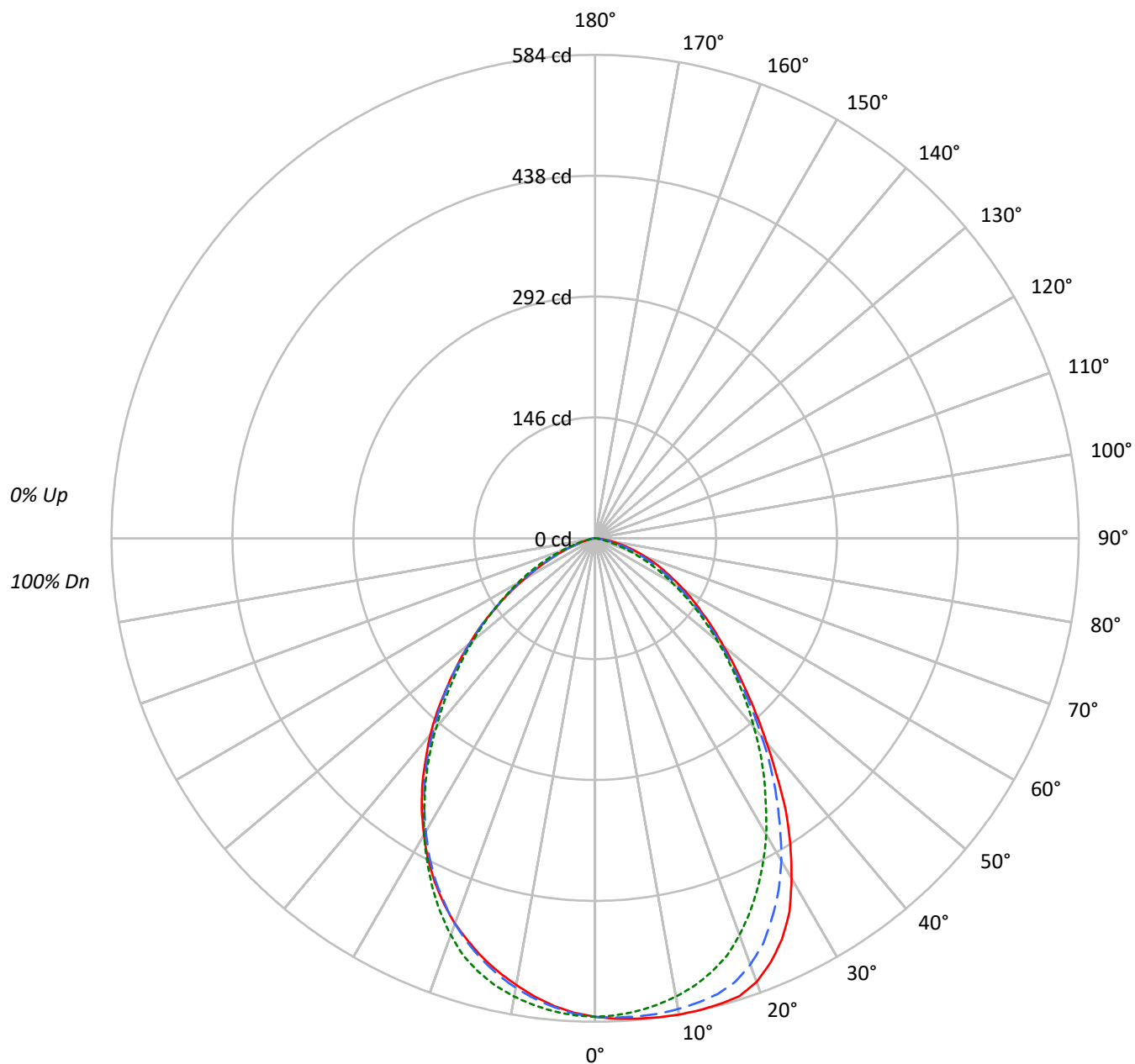
Lumens per Lamp: N/A
Luminaire Lumens: 1089.7 lumens
Efficiency: N/A
Efficacy: 69.0 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	49	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°	71034	71034	71034
5°	71836	70738	69961
10°	72891	70134	68362
15°	74087	69012	66722
20°	74547	66676	64755
25°	72413	63060	62111
30°	67298	58616	58644
35°	60231	53437	54561
40°	51576	47888	49652
45°	44408	42236	43817
50°	38588	36754	37862
55°	33970	31636	31336
60°	30222	26413	24325
65°	26511	21163	17587
70°	22773	14943	11925
75°	18465	8686	6978
80°	13159	3820	3467
85°	5075	1551	1551



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.5	5.0
10°-20°	154.3	14.2
20°-30°	220.3	20.2
30°-40°	230.4	21.1
40°-50°	193.1	17.7
50°-60°	135.1	12.4
60°-70°	73.6	6.8
70°-80°	25.5	2.3
80°-90°	2.9	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°	429.0	39.4
0°-40°	659.5	60.5
0°-60°	987.7	90.6
0°-90°	1089.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1089.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	578	578	578	578	578	
5°	582	580	574	569	567	56
15°	582	570	543	527	525	164
25°	534	506	465	456	458	244
35°	402	382	356	359	364	249
45°	256	250	243	251	252	199
55°	159	153	148	148	146	143
65°	91	83	73	61	60	91
75°	39	32	18	15	15	42
85°	4	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°	578.2	578.2	578.2	578.2	578.2	578.2	578.2	578.2	578.2	578.2	578.2
2.5°	580.9	580.3	580.4	580.4	580.4	580.3	580.4	580.3	580.3	580.0	579.5
5°	582.5	582.0	582.0	582.0	581.8	581.6	581.6	581.3	580.9	580.7	579.8
7.5°	583.6	583.1	583.1	582.9	582.7	582.5	582.2	581.6	580.9	580.4	579.4
10°	584.3	583.6	583.6	583.1	582.7	582.5	582.0	581.1	580.3	579.1	577.6
12.5°	583.8	583.1	582.9	582.5	581.6	581.1	580.7	579.5	578.0	576.4	574.5
15°	582.5	582.0	581.6	580.9	579.8	579.1	578.7	576.9	574.9	572.7	570.2
17.5°	579.8	579.1	578.2	577.3	575.8	575.1	574.0	571.8	568.8	565.8	562.0
20°	570.2	569.7	568.8	567.3	564.9	564.0	562.4	559.6	555.7	552.0	548.0
22.5°	554.4	553.8	552.4	551.1	548.9	547.4	546.0	542.0	537.7	533.7	530.0
25°	534.2	533.5	531.7	530.0	527.7	525.1	523.7	520.6	516.4	511.3	505.7
27.5°	508.2	506.0	505.3	503.3	499.9	499.0	497.1	493.0	489.0	484.6	479.9
30°	474.4	474.4	473.1	472.2	469.1	468.2	465.9	461.7	459.4	453.3	449.7
32.5°	438.6	438.1	437.0	436.3	434.5	433.0	430.8	428.6	423.7	420.5	415.6
35°	401.6	399.0	399.4	398.1	397.0	395.2	395.0	392.5	388.1	386.3	381.8
37.5°	359.6	358.5	360.1	358.0	357.0	357.1	355.4	353.8	352.1	348.9	348.0
40°	321.6	322.5	322.3	320.5	321.4	320.2	318.4	316.9	316.0	314.0	313.4
42.5°	287.6	286.2	285.8	285.8	286.0	286.0	285.1	284.0	284.0	282.0	280.0
45°	255.6	255.6	255.1	256.5	254.4	254.4	253.8	253.5	252.6	252.2	249.8
47.5°	227.9	227.8	227.5	227.3	227.0	227.0	225.7	224.6	224.4	223.0	221.7
50°	201.9	203.2	202.8	201.7	201.3	201.5	200.6	199.9	199.8	197.5	197.7
52.5°	180.1	180.0	180.4	179.7	178.6	178.8	177.9	177.0	176.1	175.0	174.2
55°	158.6	159.7	159.3	158.6	158.4	157.9	157.2	156.1	155.9	153.5	153.2
57.5°	140.5	140.4	139.9	138.8	138.6	137.9	137.9	137.0	135.6	134.3	133.2
60°	123.0	123.0	122.3	122.1	121.2	121.0	120.7	119.9	118.3	117.2	115.4
62.5°	106.1	106.6	106.1	105.4	104.8	103.9	103.4	102.7	101.4	100.3	98.7
65°	91.2	91.0	90.8	89.9	89.6	88.7	88.5	87.2	85.9	85.0	83.2
67.5°	77.0	76.2	76.2	75.8	75.4	74.7	74.3	72.9	71.4	70.5	68.8
70°	63.4	63.0	63.0	63.0	61.8	61.2	60.9	60.3	58.1	57.2	55.4
72.5°	50.9	50.7	50.5	49.8	49.1	49.1	48.2	46.9	45.8	44.7	43.3
75°	38.9	39.3	38.9	38.0	37.8	37.4	36.7	35.6	34.5	33.2	31.6
77.5°	28.4	28.0	27.6	27.6	27.1	26.2	26.0	25.1	23.8	22.9	21.3
80°	18.6	18.5	18.0	17.6	17.4	17.1	16.9	16.1	14.7	14.0	12.7
82.5°	10.3	10.0	10.0	9.8	9.1	9.1	8.9	8.0	7.3	6.9	6.2
85°	3.6	3.6	3.6	3.3	3.3	3.3	3.1	2.9	2.7	2.4	2.0
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°	578.2	578.2	578.2	578.2	578.2	578.2	578.2	578.2	578.2	578.2	578.2
2.5°	579.1	578.7	578.5	578.2	578.0	577.8	577.6	577.1	576.9	576.7	576.2
5°	579.1	578.2	577.8	577.1	576.7	576.2	575.5	574.9	574.2	573.6	572.9
7.5°	578.2	576.9	576.0	574.6	574.2	573.6	572.2	571.3	570.2	568.8	567.3
10°	576.0	574.5	572.7	570.9	570.2	569.1	567.3	565.8	564.0	562.2	560.6
12.5°	572.4	570.0	567.8	565.4	564.0	562.9	560.5	558.2	556.0	554.0	551.3
15°	567.1	564.2	561.4	558.0	556.4	555.1	551.5	548.9	545.3	542.6	539.9
17.5°	558.4	554.0	550.4	546.2	544.0	542.4	539.3	535.0	531.7	528.9	525.8
20°	543.5	539.3	534.4	529.8	527.3	525.3	520.9	516.4	513.1	510.0	506.6
22.5°	524.0	518.6	515.1	509.3	507.3	504.8	499.5	495.5	491.7	488.6	485.5
25°	500.2	495.5	490.6	485.3	482.8	479.9	475.5	471.3	468.8	465.2	461.5
27.5°	472.8	469.1	463.0	458.4	455.9	453.7	449.4	445.7	442.1	439.7	436.2
30°	443.9	439.5	434.1	429.2	427.9	425.2	421.4	418.6	414.7	413.2	411.6
32.5°	412.1	407.0	403.0	399.9	397.2	395.0	393.0	388.3	387.6	383.6	383.2
35°	377.4	375.2	371.4	368.7	366.5	365.0	361.6	359.4	357.0	356.3	354.7
37.5°	344.7	342.1	338.5	336.0	334.5	334.2	331.8	330.5	328.7	327.8	326.0
40°	310.5	309.3	306.2	305.8	303.4	303.1	301.8	300.2	298.6	298.6	298.9
42.5°	278.8	277.5	276.2	274.7	273.3	273.3	272.7	272.2	271.8	271.1	272.2
45°	249.3	247.5	246.7	245.1	245.8	244.4	244.0	244.0	243.3	243.1	244.6
47.5°	221.7	219.7	218.8	218.4	218.4	218.7	216.6	217.3	217.0	217.5	218.2
50°	196.6	194.8	193.5	193.5	193.7	192.8	191.9	192.6	191.9	192.3	194.0
52.5°	173.3	171.5	170.8	170.8	169.4	169.3	169.7	168.8	169.0	169.3	170.1
55°	151.7	150.5	149.5	148.3	148.6	148.1	147.2	147.0	147.4	147.7	148.7
57.5°	132.3	130.7	129.2	128.8	128.3	128.3	127.3	127.0	127.4	126.4	126.4
60°	113.9	113.0	110.9	110.3	110.3	109.2	108.3	108.8	107.6	107.5	107.6
62.5°	96.8	96.0	94.7	93.4	92.9	92.5	91.4	91.0	90.5	89.6	88.3
65°	81.9	80.3	78.7	77.8	77.1	76.1	75.4	74.5	73.2	72.8	71.4
67.5°	67.0	65.4	63.8	63.1	62.5	61.8	60.7	59.6	58.1	56.3	54.8
70°	53.9	51.8	50.9	49.1	48.7	47.8	46.3	45.1	43.6	41.6	40.0
72.5°	41.1	39.8	38.4	36.9	35.8	35.1	33.8	32.0	30.2	29.2	27.6
75°	29.6	28.9	27.1	25.3	24.9	24.0	22.5	21.3	20.0	18.3	16.9
77.5°	20.0	18.6	17.6	16.1	15.6	14.7	13.8	12.7	11.8	10.7	9.8
80°	11.8	10.7	10.0	8.9	8.5	8.0	7.3	6.4	5.8	5.4	5.1
82.5°	5.8	4.9	4.6	4.0	3.7	3.6	3.1	2.9	2.4	2.4	2.4
85°	2.0	1.5	1.5	1.3	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°	578.2	578.2	578.2	578.2	578.2	578.2	578.2	578.2	578.2	578.2	578.2
2.5°	576.0	575.8	575.5	575.4	575.4	575.1	575.1	574.9	574.9	574.6	574.6
5°	572.0	571.3	570.9	570.4	570.4	569.7	569.3	568.8	568.7	568.7	568.2
7.5°	566.4	565.5	564.7	564.0	563.8	562.7	561.8	561.8	560.9	560.5	560.0
10°	559.1	557.5	556.2	555.6	554.7	554.0	552.9	552.2	551.5	550.4	550.2
12.5°	549.1	548.0	546.0	545.1	544.7	543.3	541.6	540.7	540.4	539.5	538.9
15°	537.7	535.3	533.5	532.4	532.4	530.2	529.3	528.0	527.1	526.4	526.2
17.5°	523.1	520.6	518.8	517.3	516.9	515.1	513.7	513.3	512.2	512.7	511.5
20°	504.2	502.1	500.8	498.8	498.8	497.7	497.2	496.2	495.7	495.3	495.7
22.5°	483.9	481.5	479.2	479.0	479.0	477.4	477.3	477.0	476.2	476.8	476.6
25°	460.1	458.4	457.0	456.8	456.8	455.9	455.1	455.5	456.1	455.9	456.6
27.5°	435.4	433.7	433.2	433.0	432.6	432.3	432.8	432.8	433.5	434.4	435.3
30°	408.8	408.3	407.6	407.4	407.0	408.1	408.5	409.2	409.0	410.3	411.2
32.5°	382.1	381.2	381.0	381.4	382.1	381.8	383.2	383.6	384.1	385.6	386.3
35°	355.2	354.9	354.5	354.5	354.7	356.5	356.5	358.0	358.9	359.4	361.2
37.5°	326.3	327.2	327.6	328.3	328.5	329.1	329.6	331.1	332.0	332.9	333.8
40°	299.8	299.4	301.3	300.0	300.4	302.5	303.4	303.1	304.4	305.8	306.7
42.5°	271.5	272.2	272.7	273.1	274.2	274.5	275.5	277.1	277.5	279.1	279.6
45°	244.2	244.4	245.3	246.2	246.8	248.6	249.1	249.8	251.1	251.1	251.7
47.5°	218.4	219.3	219.3	220.6	221.7	221.5	223.0	223.5	223.3	224.4	224.8
50°	193.7	195.0	194.8	195.7	196.2	196.4	197.7	198.1	197.3	198.4	198.6
52.5°	170.1	170.8	171.7	171.9	171.5	172.6	172.1	173.0	172.8	173.7	172.8
55°	148.6	148.3	148.3	148.7	148.3	148.7	149.2	148.3	147.7	148.6	148.3
57.5°	127.0	127.0	126.5	127.3	126.5	125.9	125.6	125.0	124.3	124.3	124.1
60°	106.7	106.3	105.4	105.2	105.2	104.1	103.6	102.7	102.7	101.8	100.9
62.5°	87.8	86.8	86.1	86.1	85.6	84.5	82.5	81.1	80.7	79.4	79.2
65°	70.1	68.9	68.3	67.0	65.8	65.4	63.4	61.8	61.2	59.8	60.0
67.5°	53.9	52.1	50.0	49.1	48.5	46.9	46.3	45.1	44.5	44.5	44.5
70°	38.7	37.1	35.1	34.5	34.1	32.7	32.0	31.8	32.5	32.3	32.5
72.5°	26.0	24.4	23.5	23.1	22.7	22.0	22.5	22.7	22.2	22.5	22.7
75°	15.8	15.3	14.7	14.4	14.4	14.7	14.4	14.4	14.7	14.7	14.9
77.5°	9.1	8.6	8.6	8.5	8.9	8.6	8.6	8.6	8.9	8.9	8.9
80°	4.9	4.9	4.9	4.9	5.1	4.9	5.1	5.1	5.1	5.1	5.1
82.5°	2.4	2.4	2.4	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.4
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°	578.2	578.2	578.2	578.2	578.2	578.2	578.2	578.2
2.5°	574.2	574.2	574.2	573.7	574.0	574.0	573.7	573.7
5°	568.0	567.8	567.3	567.3	566.9	567.3	567.1	567.3
7.5°	559.6	559.6	558.9	558.9	558.7	558.4	558.2	558.4
10°	549.6	549.6	549.1	548.9	549.1	548.2	548.2	548.0
12.5°	538.4	538.0	537.5	537.7	537.5	536.8	536.7	536.8
15°	525.5	524.9	525.1	524.4	524.4	524.2	524.6	524.6
17.5°	511.3	510.9	510.4	510.6	510.2	510.4	510.2	510.0
20°	495.5	495.3	495.3	494.4	494.6	494.4	494.6	495.3
22.5°	477.3	477.0	477.3	476.6	477.0	477.0	477.7	477.7
25°	457.3	457.0	457.5	457.7	457.9	458.5	457.9	458.2
27.5°	435.0	435.7	436.3	436.6	437.5	436.8	436.3	437.0
30°	412.5	412.5	412.3	413.2	413.9	414.6	413.4	413.4
32.5°	386.7	387.8	387.8	388.1	388.7	388.7	388.7	389.6
35°	362.0	362.8	362.9	362.0	362.5	362.3	363.8	363.8
37.5°	334.5	334.5	334.7	336.3	336.3	335.6	336.0	336.0
40°	308.3	308.5	307.6	308.0	309.2	308.7	309.2	309.6
42.5°	279.6	281.1	280.2	280.6	280.5	280.6	280.9	280.9
45°	252.2	252.6	252.6	252.9	253.3	253.8	252.5	252.2
47.5°	225.5	225.7	226.4	225.3	226.6	225.3	226.6	225.1
50°	198.6	199.5	198.9	199.3	198.6	198.6	198.4	198.1
52.5°	173.0	172.8	172.8	172.6	172.6	173.0	172.6	173.3
55°	147.4	147.7	147.2	147.0	146.8	147.4	146.8	146.3
57.5°	123.2	123.7	122.8	123.2	121.6	122.3	122.5	122.8
60°	100.8	100.1	100.1	99.2	99.2	99.9	99.0	99.0
62.5°	78.0	78.5	77.8	78.7	78.7	79.6	79.2	79.6
65°	59.8	60.0	60.3	60.3	60.3	61.6	61.2	60.5
67.5°	45.1	45.4	45.6	45.4	46.0	45.6	45.6	45.8
70°	32.7	32.9	33.2	33.2	32.9	33.2	33.2	33.2
72.5°	22.7	22.9	22.7	22.9	23.1	22.9	22.9	23.1
75°	14.9	14.9	14.7	14.7	14.7	14.7	14.9	14.7
77.5°	8.6	8.9	8.6	8.9	8.9	8.9	8.9	8.9
80°	5.1	5.1	5.1	4.9	5.1	5.1	5.1	4.9
82.5°	2.7	2.7	2.4	2.4	2.7	2.7	2.7	2.7
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)