

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: P857059

Luminaire Tested: **LX4C15D010 EX4C159840 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P857059
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 EX4C159840 4LBLWWH
Description:
Light Source: -
Ballast/Driver: -

Summary

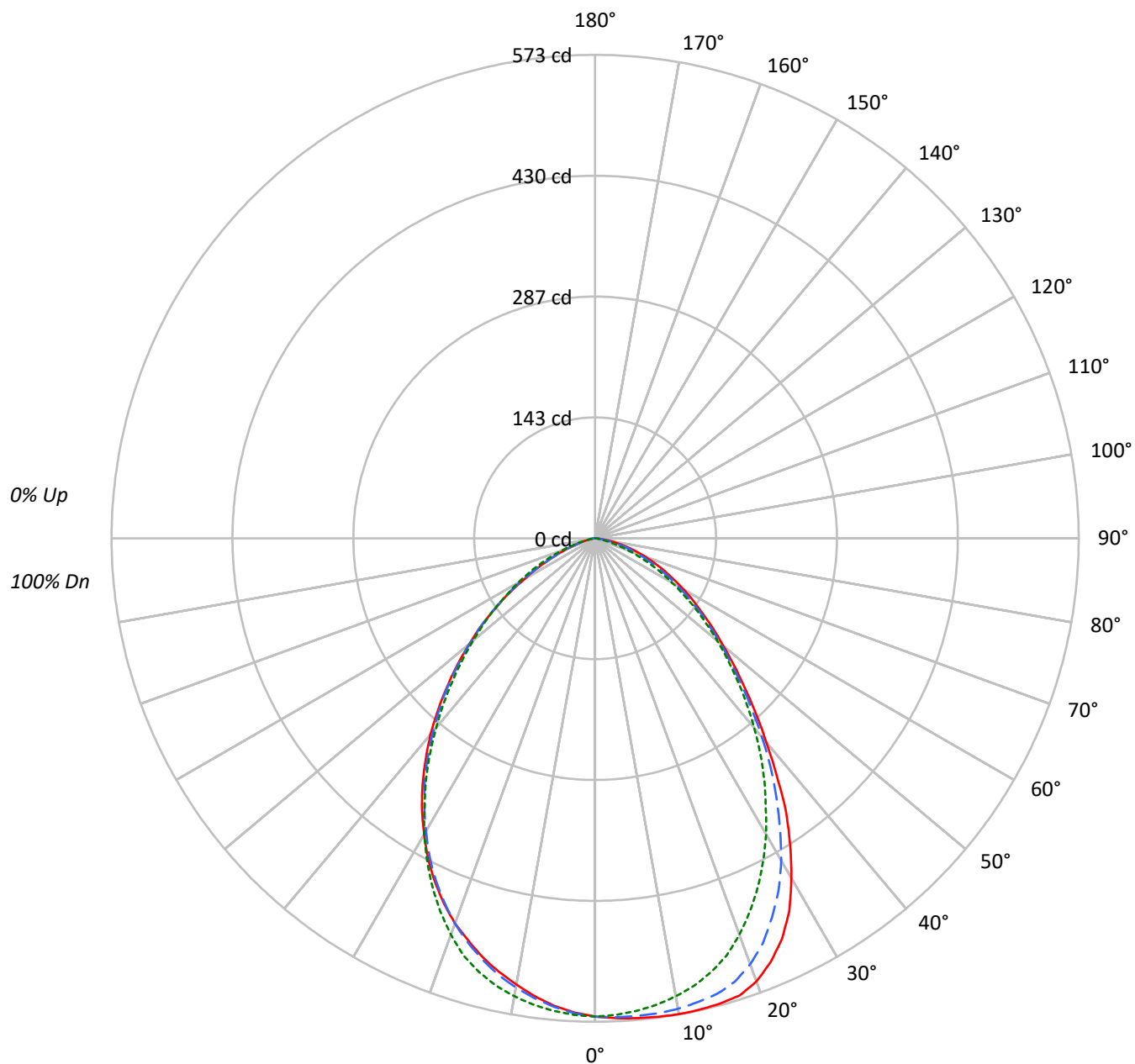
Lumens per Lamp: N/A
Luminaire Lumens: 1068.3 lumens
Efficiency: N/A
Efficacy: 67.6 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	111	107	104	101	108	105	102	99		101	98	96			97	95	93			94
2	103	96	90	86	100	94	89	85		91	86	83			88	84	81			85
3	95	86	79	74	93	85	78	73		82	76	72			79	75	71			77
4	88	78	70	64	86	77	69	64		74	68	63			72	67	62			70
5	82	71	63	57	80	69	62	57		67	61	56			66	60	55			64
6	76	64	56	51	74	63	56	50		62	55	50			60	54	50			59
7	71	59	51	46	69	58	51	45		57	50	45			55	49	45			54
8	67	54	47	41	65	54	46	41		52	46	41			51	45	41			50
9	62	50	43	38	61	50	42	37		49	42	37			47	41	37			47
10	59	47	39	34	58	46	39	34		45	39	34			44	38	34			43

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	69646	69646	69646
5°	70417	69344	68592
10°	71456	68761	67015
15°	72624	67664	65425
20°	73083	65356	63486
25°	70990	61826	60891
30°	65964	57467	57495
35°	59061	52387	53497
40°	50550	46957	48673
45°	43522	41402	42966
50°	37843	36046	37117
55°	33285	30993	30736
60°	29632	25873	23834
65°	25988	20727	17238
70°	22342	14655	11674
75°	18132	8449	6835
80°	12947	3750	3396
85°	4934	1551	1551



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.4	5.0
10°-20°	151.2	14.2
20°-30°	215.9	20.2
30°-40°	225.9	21.1
40°-50°	189.3	17.7
50°-60°	132.5	12.4
60°-70°	72.1	6.8
70°-80°	25.0	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°	420.6	39.4
0°-40°	646.5	60.5
0°-60°	968.3	90.6
0°-90°	1068.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1068.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	567	567	567	567	567	
5°	571	568	562	558	556	55
15°	571	559	532	517	514	161
25°	524	496	456	447	449	239
35°	394	374	349	352	357	244
45°	250	245	238	246	247	195
55°	155	150	145	145	144	140
65°	89	82	71	60	59	89
75°	38	31	18	14	14	41
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°	566.9	566.9	566.9	566.9	566.9	566.9	566.9	566.9	566.9	566.9	566.9
2.5°	569.5	568.8	569.0	569.0	569.0	568.8	569.0	568.8	568.8	568.6	568.2
5°	571.0	570.5	570.5	570.5	570.4	570.2	570.2	569.9	569.5	569.3	568.4
7.5°	572.1	571.7	571.7	571.4	571.2	571.0	570.8	570.2	569.5	569.0	568.0
10°	572.8	572.1	572.1	571.7	571.2	571.0	570.5	569.7	568.8	567.8	566.3
12.5°	572.3	571.7	571.4	571.0	570.2	569.7	569.3	568.2	566.6	565.1	563.1
15°	571.0	570.5	570.2	569.5	568.4	567.8	567.3	565.5	563.6	561.4	559.0
17.5°	568.4	567.8	566.9	566.0	564.5	563.8	562.7	560.5	557.7	554.7	550.9
20°	559.0	558.6	557.7	556.2	553.8	552.9	551.4	548.6	544.9	541.1	537.2
22.5°	543.5	542.9	541.6	540.3	538.1	536.6	535.2	531.3	527.2	523.3	519.5
25°	523.7	523.0	521.3	519.5	517.4	514.8	513.5	510.4	506.2	501.2	495.8
27.5°	498.2	496.0	495.4	493.4	490.1	489.2	487.2	483.3	479.4	475.1	470.5
30°	465.0	465.0	463.7	462.9	459.8	459.0	456.8	452.6	450.4	444.4	440.9
32.5°	429.9	429.6	428.4	427.8	426.0	424.5	422.3	420.1	415.4	412.3	407.5
35°	393.8	391.1	391.6	390.2	389.2	387.5	387.2	384.8	380.4	378.7	374.4
37.5°	352.5	351.4	353.0	351.0	349.9	350.2	348.4	346.9	345.1	342.1	341.2
40°	315.2	316.1	315.9	314.2	315.1	314.0	312.2	310.7	309.8	307.8	307.2
42.5°	281.9	280.6	280.2	280.2	280.4	280.4	279.5	278.4	278.4	276.4	274.5
45°	250.5	250.5	250.0	251.4	249.4	249.4	248.8	248.5	247.6	247.3	244.9
47.5°	223.5	223.3	223.0	222.8	222.6	222.6	221.3	220.2	220.0	218.7	217.4
50°	198.0	199.3	198.9	197.8	197.3	197.5	196.6	196.0	195.8	193.6	193.9
52.5°	176.6	176.4	176.8	176.2	175.0	175.3	174.4	173.5	172.6	171.6	170.7
55°	155.4	156.5	156.1	155.4	155.3	154.8	154.2	153.0	152.8	150.4	150.3
57.5°	137.8	137.6	137.1	136.1	135.8	135.2	135.2	134.3	133.0	131.7	130.6
60°	120.6	120.6	119.9	119.7	118.8	118.6	118.4	117.5	116.0	114.9	113.2
62.5°	104.0	104.4	104.0	103.4	102.7	101.8	101.4	100.8	99.4	98.4	96.8
65°	89.4	89.2	89.0	88.1	87.8	87.0	86.8	85.4	84.2	83.3	81.5
67.5°	75.4	74.8	74.8	74.4	73.9	73.3	72.9	71.5	70.0	69.1	67.3
70°	62.2	61.7	61.7	61.7	60.6	59.9	59.7	59.1	56.9	56.0	54.3
72.5°	49.9	49.7	49.5	48.9	48.2	48.2	47.4	46.0	44.9	43.8	42.5
75°	38.2	38.6	38.2	37.3	37.1	36.7	35.9	34.9	33.8	32.5	30.9
77.5°	27.9	27.5	27.0	27.0	26.6	25.8	25.5	24.6	23.4	22.5	21.0
80°	18.3	18.1	17.7	17.2	17.0	16.8	16.6	15.7	14.4	13.7	12.4
82.5°	10.0	9.8	9.8	9.6	8.9	8.9	8.7	7.8	7.2	6.8	6.1
85°	3.5	3.5	3.5	3.3	3.3	3.3	3.0	2.9	2.6	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°	566.9	566.9	566.9	566.9	566.9	566.9	566.9	566.9	566.9	566.9	566.9
2.5°	567.8	567.3	567.1	566.9	566.6	566.4	566.3	565.8	565.5	565.4	564.9
5°	567.8	566.9	566.4	565.8	565.4	564.9	564.3	563.6	563.0	562.3	561.6
7.5°	566.9	565.5	564.7	563.4	563.0	562.3	561.0	560.1	559.0	557.7	556.2
10°	564.7	563.1	561.4	559.7	559.0	558.0	556.2	554.7	552.9	551.2	549.7
12.5°	561.2	558.8	556.6	554.2	552.9	551.8	549.4	547.3	545.0	543.1	540.5
15°	556.0	553.1	550.3	547.0	545.5	544.2	540.7	538.1	534.6	532.0	529.3
17.5°	547.4	543.1	539.6	535.5	533.3	531.7	528.7	524.6	521.3	518.5	515.4
20°	532.8	528.7	523.9	519.4	516.9	515.0	510.6	506.2	503.0	499.9	496.7
22.5°	513.6	508.5	505.0	499.3	497.3	494.9	489.7	485.7	482.1	479.0	475.9
25°	490.4	485.7	481.0	475.7	473.3	470.5	466.1	462.0	459.6	456.1	452.4
27.5°	463.5	459.8	453.9	449.3	446.9	444.8	440.6	437.0	433.5	431.1	427.6
30°	435.2	430.8	425.6	420.8	419.5	416.9	413.1	410.3	406.6	405.1	403.6
32.5°	404.0	399.0	395.0	392.0	389.4	387.2	385.2	380.7	380.1	376.1	375.7
35°	370.0	367.8	364.1	361.5	359.3	357.8	354.5	352.3	349.9	349.3	347.8
37.5°	338.0	335.3	331.8	329.4	327.9	327.7	325.3	324.0	322.3	321.4	319.6
40°	304.4	303.3	300.2	299.8	297.4	297.1	295.9	294.4	292.8	292.8	293.0
42.5°	273.4	272.1	270.8	269.3	268.0	268.0	267.3	266.9	266.5	265.7	266.9
45°	244.4	242.6	241.8	240.2	240.9	239.6	239.2	239.2	238.5	238.3	239.8
47.5°	217.4	215.4	214.6	214.1	214.1	214.3	212.3	213.0	212.8	213.2	213.8
50°	192.7	191.0	189.7	189.7	189.9	189.0	188.2	188.8	188.2	188.6	190.1
52.5°	169.9	168.1	167.5	167.5	166.1	166.0	166.3	165.5	165.7	166.0	166.8
55°	148.7	147.6	146.5	145.4	145.6	145.2	144.4	144.1	144.6	144.7	145.9
57.5°	129.7	128.2	126.7	126.3	125.8	125.8	124.8	124.5	124.9	123.9	123.9
60°	111.6	110.8	108.8	108.2	108.2	107.0	106.2	106.7	105.5	105.3	105.5
62.5°	94.9	94.2	92.9	91.6	91.1	90.7	89.6	89.2	88.7	87.8	86.6
65°	80.3	78.7	77.2	76.3	75.6	74.5	73.9	73.0	71.7	71.3	70.0
67.5°	65.6	64.1	62.6	61.9	61.3	60.6	59.5	58.4	56.9	55.2	53.6
70°	52.8	50.8	49.9	48.2	47.7	46.9	45.4	44.2	42.7	40.8	39.2
72.5°	40.3	39.1	37.7	36.2	35.1	34.4	33.2	31.4	29.7	28.5	27.0
75°	29.0	28.4	26.6	24.9	24.4	23.5	22.0	21.0	19.6	17.8	16.6
77.5°	19.6	18.3	17.2	15.7	15.2	14.4	13.6	12.4	11.6	10.4	9.6
80°	11.6	10.4	9.8	8.7	8.3	7.8	7.2	6.3	5.7	5.3	5.0
82.5°	5.7	4.8	4.5	3.9	3.7	3.5	3.0	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°	566.9	566.9	566.9	566.9	566.9	566.9	566.9	566.9	566.9	566.9	566.9
2.5°	564.7	564.5	564.3	564.0	564.0	563.8	563.8	563.6	563.6	563.4	563.4
5°	560.7	560.1	559.7	559.2	559.2	558.6	558.1	557.7	557.5	557.5	557.1
7.5°	555.3	554.5	553.6	552.9	552.7	551.6	550.7	550.7	549.8	549.4	549.0
10°	548.2	546.5	545.3	544.6	543.8	543.1	542.0	541.4	540.7	539.6	539.4
12.5°	538.3	537.2	535.2	534.4	534.0	532.6	530.9	530.1	529.8	528.9	528.3
15°	527.2	524.8	523.0	521.9	521.9	519.8	518.9	517.6	516.8	516.1	515.9
17.5°	512.8	510.4	508.6	507.1	506.7	505.0	503.7	503.2	502.1	502.6	501.4
20°	494.3	492.3	491.0	489.0	489.0	488.0	487.5	486.4	486.0	485.6	486.0
22.5°	474.4	472.0	469.9	469.6	469.6	468.1	467.9	467.6	466.8	467.5	467.3
25°	451.1	449.3	448.0	447.8	447.8	446.9	446.0	446.5	447.2	446.9	447.6
27.5°	426.9	425.2	424.7	424.5	424.0	423.8	424.3	424.3	424.9	425.8	426.7
30°	400.7	400.3	399.7	399.4	399.0	400.0	400.5	401.2	400.9	402.3	403.2
32.5°	374.5	373.7	373.5	373.9	374.5	374.4	375.7	376.1	376.5	378.1	378.7
35°	348.2	348.0	347.5	347.5	347.8	349.5	349.5	351.0	351.9	352.3	354.1
37.5°	319.9	320.8	321.1	321.8	322.0	322.7	323.1	324.7	325.5	326.4	327.3
40°	293.9	293.5	295.4	294.1	294.5	296.5	297.4	297.1	298.5	299.8	300.7
42.5°	266.2	266.9	267.3	267.7	268.9	269.0	270.1	271.6	272.1	273.6	274.0
45°	239.4	239.6	240.5	241.4	242.0	243.7	244.2	244.9	246.1	246.1	246.8
47.5°	214.1	215.0	215.0	216.2	217.4	217.1	218.7	219.1	218.9	220.0	220.4
50°	189.9	191.2	191.0	191.9	192.3	192.5	193.9	194.2	193.4	194.5	194.7
52.5°	166.8	167.5	168.4	168.5	168.1	169.2	168.7	169.6	169.4	170.3	169.4
55°	145.6	145.4	145.4	145.9	145.4	145.9	146.3	145.4	144.7	145.6	145.4
57.5°	124.5	124.5	124.0	124.8	124.0	123.4	123.1	122.5	121.9	121.9	121.6
60°	104.7	104.2	103.4	103.1	103.1	102.0	101.6	100.8	100.8	99.9	99.0
62.5°	86.1	85.1	84.4	84.4	83.9	82.8	80.9	79.5	79.2	77.8	77.6
65°	68.7	67.6	67.0	65.6	64.6	64.1	62.2	60.6	59.9	58.7	58.9
67.5°	52.8	51.0	49.0	48.2	47.5	46.0	45.4	44.2	43.6	43.6	43.6
70°	37.9	36.4	34.4	33.8	33.4	32.0	31.4	31.2	31.8	31.7	31.8
72.5°	25.5	24.0	23.1	22.7	22.2	21.6	22.0	22.2	21.8	22.0	22.2
75°	15.5	15.1	14.4	14.2	14.2	14.4	14.2	14.2	14.4	14.4	14.6
77.5°	8.9	8.5	8.5	8.3	8.7	8.5	8.5	8.5	8.7	8.7	8.7
80°	4.8	4.8	4.8	4.8	5.0	4.8	5.0	5.0	5.0	5.0	5.0
82.5°	2.4	2.4	2.4	2.6	2.6	2.6	2.6	2.6	2.6	2.6	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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CATALOG NUMBER: LX4C15D010 EX4C159840 4LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	566.9	566.9	566.9	566.9	566.9	566.9	566.9	566.9
2.5°	563.0	563.0	563.0	562.5	562.7	562.7	562.5	562.5
5°	556.8	556.6	556.2	556.2	555.7	556.2	556.0	556.2
7.5°	548.6	548.6	547.9	547.9	547.7	547.4	547.3	547.4
10°	538.7	538.7	538.3	538.1	538.3	537.5	537.5	537.2
12.5°	527.8	527.4	526.9	527.2	526.9	526.3	526.1	526.3
15°	515.2	514.5	514.8	514.1	514.1	513.9	514.4	514.4
17.5°	501.2	500.8	500.4	500.6	500.2	500.4	500.2	499.9
20°	485.7	485.6	485.6	484.7	484.9	484.7	484.9	485.6
22.5°	467.9	467.6	467.9	467.3	467.6	467.6	468.3	468.3
25°	448.3	448.0	448.5	448.7	448.9	449.5	448.9	449.2
27.5°	426.4	427.1	427.8	427.9	428.8	428.2	427.8	428.4
30°	404.4	404.4	404.2	405.1	405.7	406.4	405.3	405.3
32.5°	379.2	380.2	380.2	380.4	381.1	381.1	381.1	382.0
35°	354.9	355.6	355.8	354.9	355.4	355.2	356.7	356.7
37.5°	327.9	327.9	328.2	329.7	329.7	329.0	329.4	329.4
40°	302.2	302.4	301.5	301.9	303.0	302.7	303.0	303.5
42.5°	274.0	275.5	274.7	275.2	274.9	275.2	275.4	275.4
45°	247.3	247.6	247.6	247.9	248.4	248.8	247.5	247.3
47.5°	221.1	221.3	222.0	220.9	222.1	220.9	222.1	220.6
50°	194.7	195.6	194.9	195.4	194.7	194.7	194.5	194.2
52.5°	169.6	169.4	169.4	169.2	169.2	169.6	169.2	169.9
55°	144.6	144.7	144.4	144.1	143.9	144.6	143.9	143.5
57.5°	120.8	121.2	120.4	120.8	119.2	119.9	120.1	120.4
60°	98.8	98.1	98.1	97.2	97.2	97.9	97.0	97.0
62.5°	76.5	77.0	76.3	77.2	77.2	78.0	77.6	78.0
65°	58.7	58.9	59.1	59.1	59.1	60.4	59.9	59.3
67.5°	44.2	44.5	44.7	44.5	45.1	44.7	44.7	44.9
70°	32.0	32.3	32.5	32.5	32.3	32.5	32.5	32.5
72.5°	22.2	22.5	22.2	22.5	22.7	22.5	22.5	22.7
75°	14.6	14.6	14.4	14.4	14.4	14.4	14.6	14.4
77.5°	8.5	8.7	8.5	8.7	8.7	8.7	8.7	8.7
80°	5.0	5.0	5.0	4.8	5.0	5.0	5.0	4.8
82.5°	2.6	2.6	2.4	2.4	2.6	2.6	2.6	2.6
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)