

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: P857046

Luminaire Tested: **LX4C15D010 EX4C159835 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P857046
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 EX4C159835 4LBLWWH
Description:
Light Source: -
Ballast/Driver: -

Summary

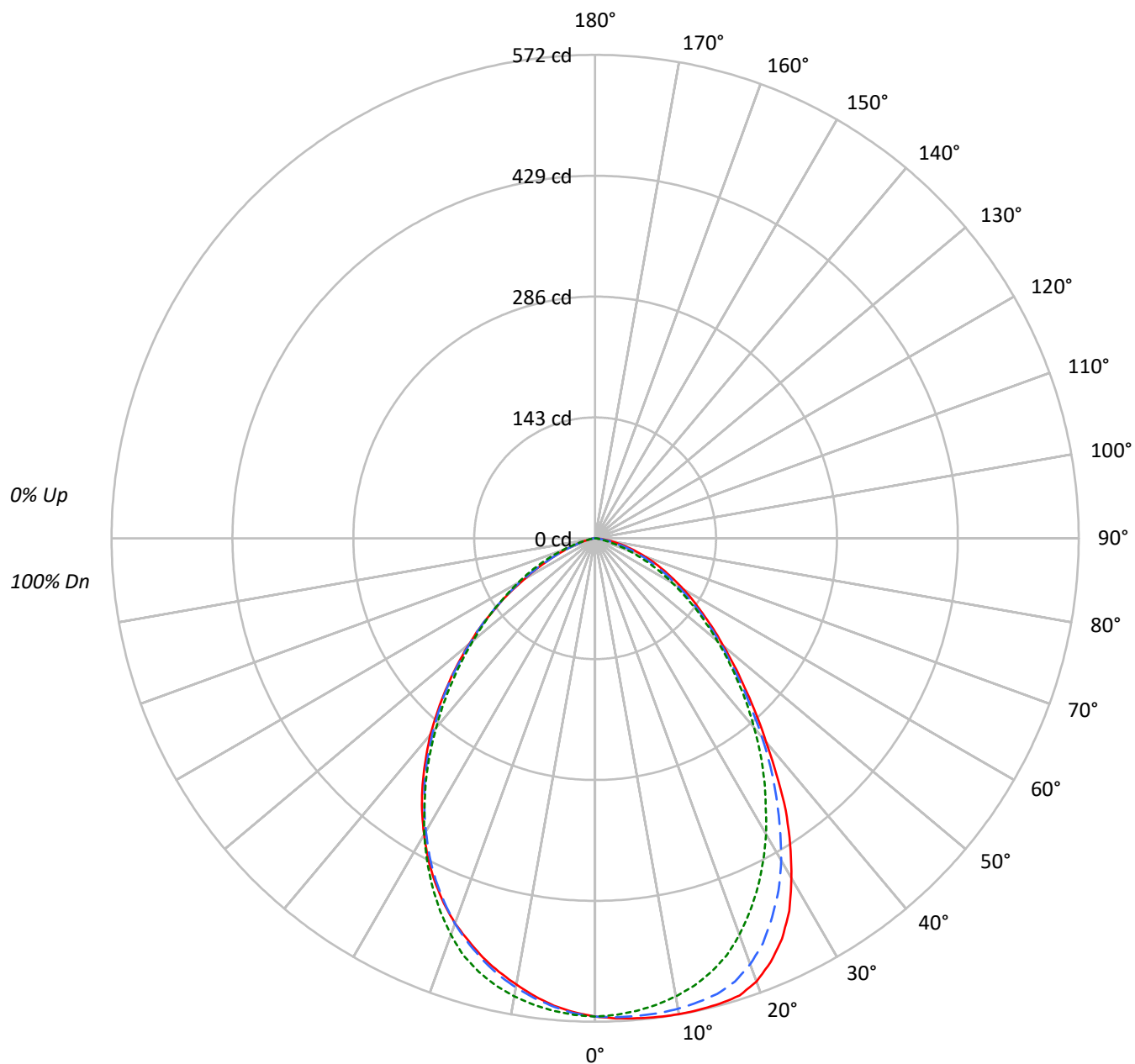
Lumens per Lamp: N/A
Luminaire Lumens: 1066.5 lumens
Efficiency: N/A
Efficacy: 67.5 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	69523	69523	69523
5°	70306	69233	68481
10°	71331	68649	66903
15°	72509	67549	65311
20°	72965	65251	63382
25°	70868	61718	60782
30°	65851	57368	57410
35°	58956	52297	53407
40°	50486	46877	48593
45°	43453	41333	42879
50°	37767	35970	37078
55°	33242	30972	30672
60°	29583	25824	23784
65°	25959	20698	17209
70°	22306	14619	11674
75°	18085	8449	6835
80°	12947	3750	3396
85°	4934	1551	1551



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.3	5.0
10°-20°	151.0	14.2
20°-30°	215.6	20.2
30°-40°	225.5	21.1
40°-50°	189.0	17.7
50°-60°	132.3	12.4
60°-70°	72.0	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°	419.9	39.4
0°-40°	645.4	60.5
0°-60°	966.6	90.6
0°-90°	1066.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1066.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	566	566	566	566	566	
5°	570	567	561	556	555	54
15°	570	558	531	516	514	161
25°	523	495	455	446	448	239
35°	393	374	349	351	356	244
45°	250	244	238	246	247	194
55°	155	150	145	145	143	140
65°	89	81	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°	565.9	565.9	565.9	565.9	565.9	565.9	565.9	565.9	565.9	565.9	565.9
2.5°	568.6	567.9	568.1	568.1	568.1	567.9	568.1	567.9	567.9	567.7	567.2
5°	570.1	569.6	569.6	569.6	569.4	569.2	569.2	568.9	568.6	568.3	567.4
7.5°	571.2	570.7	570.7	570.5	570.3	570.1	569.8	569.2	568.6	568.1	567.0
10°	571.8	571.2	571.2	570.7	570.3	570.1	569.6	568.8	567.9	566.8	565.3
12.5°	571.3	570.7	570.5	570.1	569.2	568.8	568.3	567.2	565.7	564.2	562.2
15°	570.1	569.6	569.2	568.6	567.4	566.8	566.3	564.7	562.7	560.5	558.1
17.5°	567.4	566.8	565.9	565.1	563.5	562.9	561.8	559.6	556.8	553.8	550.0
20°	558.1	557.7	556.8	555.3	552.9	552.0	550.5	547.6	544.0	540.2	536.3
22.5°	542.6	542.0	540.7	539.3	537.2	535.7	534.3	530.4	526.3	522.4	518.7
25°	522.8	522.2	520.4	518.7	516.5	513.9	512.6	509.5	505.4	500.4	495.0
27.5°	497.3	495.2	494.6	492.6	489.3	488.4	486.4	482.5	478.6	474.3	469.7
30°	464.2	464.2	463.0	462.1	459.1	458.2	456.0	451.8	449.7	443.6	440.1
32.5°	429.2	428.8	427.7	427.1	425.3	423.8	421.6	419.5	414.7	411.6	406.8
35°	393.1	390.5	390.9	389.6	388.5	386.7	386.6	384.2	379.8	378.1	373.7
37.5°	352.0	350.9	352.4	350.5	349.4	349.6	347.9	346.3	344.6	341.5	340.6
40°	314.8	315.6	315.4	313.6	314.5	313.4	311.7	310.1	309.3	307.4	306.7
42.5°	281.4	280.1	279.7	279.7	279.9	279.9	279.0	278.0	278.0	276.0	274.0
45°	250.1	250.1	249.7	250.9	249.0	249.0	248.4	248.2	247.3	246.8	244.4
47.5°	223.1	222.8	222.7	222.5	222.2	222.2	220.9	219.8	219.6	218.3	217.0
50°	197.6	198.9	198.5	197.4	197.0	197.2	196.4	195.6	195.5	193.2	193.5
52.5°	176.3	176.1	176.6	175.9	174.8	175.0	174.2	173.3	172.4	171.3	170.4
55°	155.2	156.3	155.9	155.2	155.0	154.5	153.9	152.8	152.6	150.2	150.0
57.5°	137.6	137.3	136.9	135.8	135.6	134.9	134.9	134.1	132.8	131.4	130.4
60°	120.4	120.4	119.7	119.5	118.6	118.4	118.2	117.4	115.8	114.7	113.0
62.5°	103.8	104.2	103.8	103.2	102.6	101.7	101.2	100.6	99.3	98.2	96.7
65°	89.3	89.0	88.8	87.9	87.7	86.9	86.6	85.3	84.0	83.1	81.4
67.5°	75.4	74.6	74.6	74.2	73.7	73.1	72.7	71.4	69.9	69.0	67.2
70°	62.1	61.6	61.6	61.6	60.5	59.8	59.7	58.9	56.8	55.9	54.2
72.5°	49.8	49.7	49.4	48.8	48.1	48.1	47.3	45.9	44.9	43.8	42.4
75°	38.1	38.5	38.1	37.2	37.0	36.6	35.9	34.9	33.7	32.5	30.9
77.5°	27.8	27.5	27.0	27.0	26.6	25.7	25.5	24.6	23.3	22.4	20.9
80°	18.3	18.1	17.7	17.2	16.9	16.8	16.6	15.7	14.4	13.7	12.4
82.5°	10.0	9.8	9.8	9.5	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°	565.9	565.9	565.9	565.9	565.9	565.9	565.9	565.9	565.9	565.9	565.9
2.5°	566.8	566.3	566.2	565.9	565.7	565.5	565.3	564.8	564.7	564.4	563.9
5°	566.8	565.9	565.5	564.8	564.4	563.9	563.3	562.7	562.0	561.4	560.7
7.5°	565.9	564.7	563.8	562.4	562.0	561.4	560.0	559.2	558.1	556.8	555.3
10°	563.8	562.2	560.5	558.8	558.1	557.0	555.3	553.8	552.0	550.3	548.7
12.5°	560.3	557.9	555.7	553.3	552.0	550.9	548.5	546.4	544.1	542.2	539.6
15°	555.0	552.2	549.4	546.1	544.6	543.2	539.8	537.2	533.7	531.1	528.4
17.5°	546.5	542.2	538.7	534.6	532.4	530.9	527.8	523.7	520.4	517.6	514.5
20°	531.9	527.8	523.0	518.5	516.1	514.1	509.8	505.4	502.1	499.1	495.8
22.5°	512.8	507.6	504.1	498.5	496.5	494.1	488.9	484.9	481.3	478.2	475.1
25°	489.6	484.9	480.2	474.9	472.5	469.7	465.4	461.2	458.8	455.3	451.7
27.5°	462.7	459.1	453.2	448.6	446.2	444.0	439.9	436.2	432.7	430.4	426.9
30°	434.5	430.1	424.9	420.1	418.8	416.2	412.4	409.7	405.9	404.4	402.9
32.5°	403.3	398.3	394.4	391.4	388.7	386.6	384.6	380.1	379.3	375.5	375.1
35°	369.4	367.2	363.5	360.9	358.7	357.1	353.9	351.7	349.4	348.7	347.2
37.5°	337.3	334.8	331.3	328.9	327.4	327.2	324.8	323.4	321.7	320.8	319.1
40°	303.8	302.7	299.7	299.3	296.9	296.7	295.3	293.8	292.3	292.3	292.6
42.5°	273.0	271.6	270.4	268.8	267.5	267.5	266.9	266.5	266.0	265.3	266.5
45°	244.0	242.3	241.4	239.9	240.5	239.3	238.8	238.8	238.1	237.9	239.4
47.5°	217.0	215.1	214.2	213.8	213.8	213.9	212.0	212.7	212.4	212.9	213.5
50°	192.4	190.7	189.4	189.4	189.6	188.7	187.8	188.5	187.8	188.2	189.8
52.5°	169.5	167.8	167.2	167.2	165.9	165.7	166.0	165.2	165.4	165.7	166.5
55°	148.5	147.3	146.2	145.2	145.4	145.0	144.1	143.8	144.3	144.6	145.6
57.5°	129.5	128.0	126.4	126.0	125.6	125.6	124.5	124.3	124.8	123.6	123.6
60°	111.5	110.6	108.6	108.0	108.0	106.8	106.0	106.5	105.3	105.1	105.3
62.5°	94.7	94.0	92.7	91.4	91.0	90.5	89.4	89.0	88.5	87.7	86.4
65°	80.1	78.6	77.0	76.2	75.5	74.5	73.7	72.9	71.6	71.2	69.9
67.5°	65.5	64.0	62.5	61.8	61.2	60.5	59.4	58.3	56.8	55.1	53.5
70°	52.7	50.7	49.8	48.1	47.7	46.8	45.3	44.1	42.6	40.7	39.1
72.5°	40.3	39.0	37.6	36.1	35.0	34.4	33.1	31.3	29.6	28.5	27.0
75°	29.0	28.3	26.6	24.8	24.3	23.5	22.0	20.9	19.6	17.8	16.6
77.5°	19.6	18.3	17.2	15.7	15.2	14.4	13.5	12.4	11.5	10.4	9.5
80°	11.5	10.4	9.8	8.7	8.3	7.8	7.2	6.3	5.6	5.3	5.0
82.5°	5.6	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°	565.9	565.9	565.9	565.9	565.9	565.9	565.9	565.9	565.9	565.9	565.9
2.5°	563.8	563.5	563.3	563.1	563.1	562.9	562.9	562.7	562.7	562.4	562.4
5°	559.8	559.2	558.8	558.3	558.3	557.7	557.2	556.8	556.5	556.5	556.1
7.5°	554.4	553.5	552.6	552.0	551.8	550.7	549.8	549.8	549.0	548.5	548.1
10°	547.2	545.7	544.4	543.7	542.9	542.2	541.1	540.5	539.8	538.7	538.5
12.5°	537.5	536.3	534.3	533.5	533.1	531.7	530.1	529.2	528.9	528.1	527.4
15°	526.3	523.9	522.2	521.0	521.0	518.9	518.0	516.8	515.9	515.2	515.0
17.5°	511.9	509.5	507.8	506.2	505.9	504.1	502.8	502.4	501.2	501.7	500.6
20°	493.4	491.4	490.2	488.2	488.2	487.2	486.7	485.6	485.2	484.8	485.2
22.5°	473.6	471.2	469.1	468.9	468.9	467.4	467.1	466.9	466.0	466.6	466.5
25°	450.3	448.6	447.3	447.1	447.1	446.2	445.3	445.8	446.4	446.2	446.9
27.5°	426.2	424.5	424.0	423.8	423.3	423.1	423.6	423.6	424.2	425.1	426.0
30°	400.0	399.6	399.0	398.8	398.3	399.4	399.9	400.5	400.3	401.6	402.4
32.5°	373.9	373.1	372.8	373.3	373.9	373.7	375.1	375.5	375.9	377.4	378.1
35°	347.6	347.4	347.0	347.0	347.2	348.9	348.9	350.5	351.3	351.7	353.5
37.5°	319.3	320.2	320.6	321.3	321.5	322.1	322.5	324.1	325.0	325.8	326.7
40°	293.4	292.9	294.9	293.7	294.1	296.1	296.9	296.7	298.0	299.3	300.2
42.5°	265.7	266.5	266.9	267.3	268.4	268.6	269.7	271.2	271.6	273.1	273.6
45°	239.0	239.3	240.1	240.9	241.6	243.4	243.8	244.4	245.8	245.8	246.4
47.5°	213.8	214.6	214.6	215.9	217.0	216.8	218.3	218.7	218.6	219.6	220.1
50°	189.6	190.9	190.7	191.5	192.0	192.2	193.5	194.0	193.1	194.1	194.4
52.5°	166.5	167.2	168.0	168.3	167.8	168.9	168.5	169.3	169.2	170.0	169.2
55°	145.4	145.2	145.2	145.6	145.2	145.6	146.1	145.2	144.6	145.4	145.2
57.5°	124.3	124.3	123.9	124.5	123.9	123.2	123.0	122.3	121.6	121.6	121.5
60°	104.5	104.1	103.2	103.0	103.0	101.8	101.4	100.6	100.6	99.7	98.8
62.5°	86.0	84.9	84.3	84.3	83.8	82.8	80.8	79.5	79.0	77.7	77.5
65°	68.6	67.5	66.8	65.5	64.4	64.0	62.1	60.5	59.8	58.6	58.8
67.5°	52.7	50.9	49.0	48.1	47.4	45.9	45.3	44.1	43.5	43.5	43.5
70°	37.9	36.4	34.4	33.7	33.3	32.0	31.3	31.1	31.7	31.6	31.7
72.5°	25.5	23.9	23.1	22.7	22.2	21.6	22.0	22.2	21.8	22.0	22.2
75°	15.4	15.0	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 EX4C159835 4LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	565.9	565.9	565.9	565.9	565.9	565.9	565.9	565.9
2.5°	562.0	562.0	562.0	561.5	561.8	561.8	561.5	561.5
5°	555.9	555.7	555.3	555.3	554.8	555.3	555.0	555.3
7.5°	547.6	547.6	547.0	547.0	546.7	546.5	546.4	546.5
10°	537.8	537.8	537.5	537.2	537.5	536.6	536.6	536.3
12.5°	526.9	526.5	526.1	526.3	526.1	525.4	525.2	525.4
15°	514.4	513.6	513.9	513.3	513.3	513.0	513.5	513.5
17.5°	500.4	500.0	499.6	499.7	499.3	499.6	499.3	499.1
20°	484.9	484.8	484.8	483.9	484.0	483.9	484.0	484.8
22.5°	467.1	466.9	467.1	466.5	466.9	466.9	467.5	467.5
25°	447.5	447.3	447.7	447.9	448.2	448.8	448.2	448.4
27.5°	425.7	426.4	427.1	427.2	428.1	427.5	427.1	427.7
30°	403.8	403.8	403.5	404.4	405.0	405.7	404.7	404.7
32.5°	378.5	379.6	379.6	379.8	380.5	380.5	380.5	381.3
35°	354.4	355.0	355.3	354.4	354.8	354.6	356.1	356.1
37.5°	327.4	327.4	327.6	329.1	329.1	328.4	328.9	328.9
40°	301.7	301.9	301.1	301.5	302.6	302.1	302.6	303.0
42.5°	273.6	275.1	274.2	274.7	274.5	274.7	274.9	274.9
45°	246.8	247.3	247.3	247.5	247.9	248.4	247.0	246.8
47.5°	220.7	220.9	221.6	220.5	221.8	220.5	221.8	220.3
50°	194.4	195.2	194.6	195.0	194.4	194.4	194.1	194.0
52.5°	169.3	169.2	169.2	168.9	168.9	169.3	168.9	169.5
55°	144.3	144.6	144.1	143.8	143.7	144.3	143.7	143.2
57.5°	120.6	121.0	120.1	120.6	119.0	119.7	119.9	120.1
60°	98.6	97.9	97.9	97.1	97.1	97.7	96.8	96.8
62.5°	76.4	76.9	76.2	77.0	77.0	77.9	77.5	77.9
65°	58.6	58.8	58.9	58.9	58.9	60.3	59.8	59.2
67.5°	44.1	44.4	44.6	44.4	45.0	44.6	44.6	44.9
70°	32.0	32.2	32.5	32.5	32.2	32.5	32.5	32.5
72.5°	22.2	22.4	22.2	22.4	22.7	22.4	22.4	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)