

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: P859759

Luminaire Tested: **LX4C08D010 EX4C089830 4LBSWNH**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P859759
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: LX4C08D010 EX4C089830 4LBSWNH
Description:
Light Source: -
Ballast/Driver: -

Summary

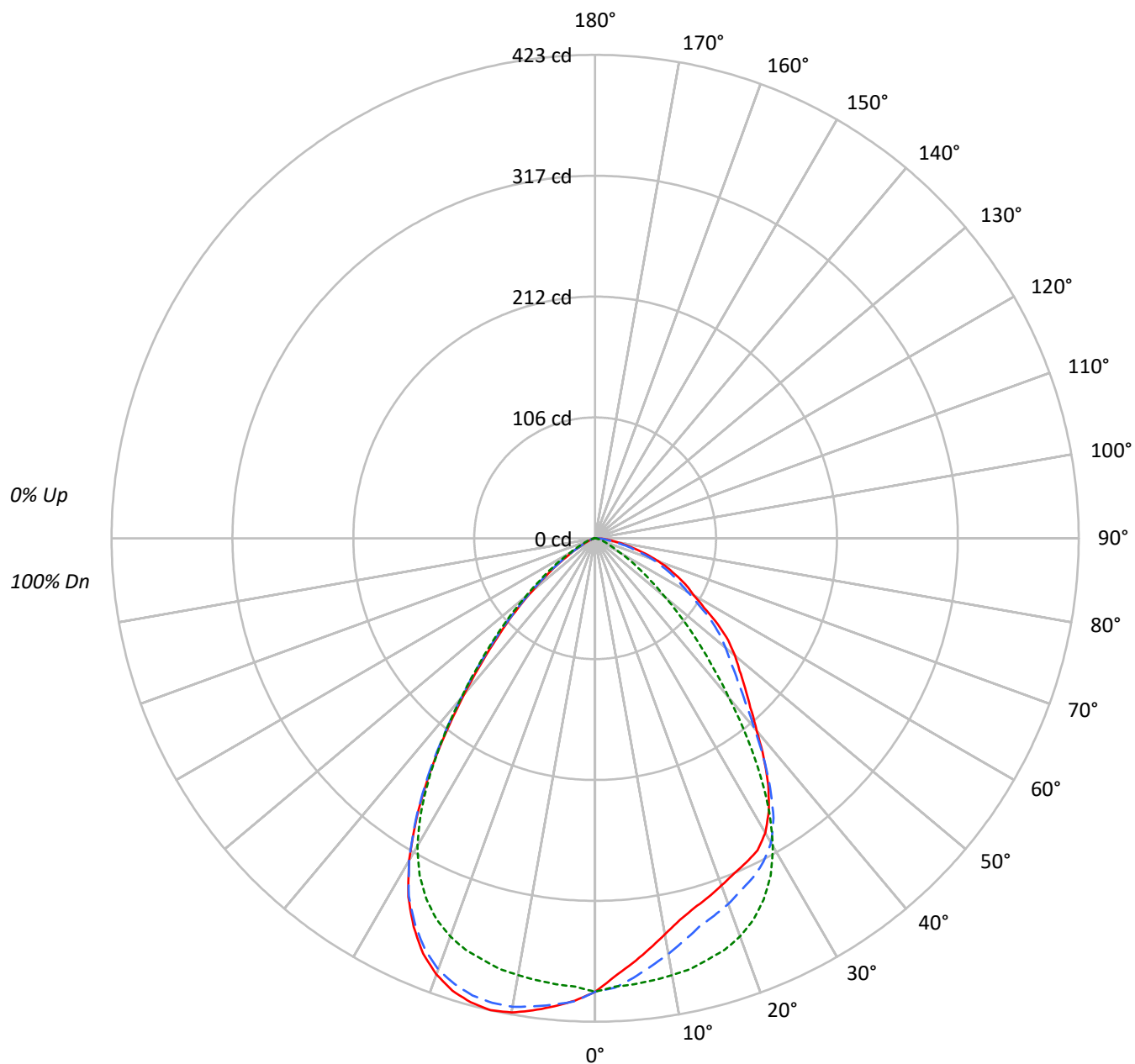
Lumens per Lamp: N/A
Luminaire Lumens: 695.6 lumens
Efficiency: N/A
Efficacy: 70.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
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

TEST NUMBER: P859759

CATALOG NUMBER: LX4C08D010 EX4C089830 4LBSWNH

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	48748	48748	48748
5°	46036	48306	50698
10°	43887	48415	52557
15°	42595	48522	53457
20°	42255	48465	53080
25°	42415	47281	50873
30°	42217	44104	46133
35°	39579	37659	38034
40°	35266	29188	28547
45°	32246	21770	20432
50°	30485	15252	13780
55°	28037	10302	8653
60°	24497	6020	4767
65°	23198	3866	2674
70°	21157	2766	1652
75°	17468	1946	1234
80°	13725	1061	707
85°	12263	705	0



TEST NUMBER: P859759

CATALOG NUMBER: LX4C08D010 EX4C089830 4LBSWNH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.5	5.4
10°-20°	107.6	15.5
20°-30°	159.4	22.9
30°-40°	159.7	23.0
40°-50°	111.6	16.0
50°-60°	66.4	9.5
60°-70°	34.7	5.0
70°-80°	15.4	2.2
80°-90°	3.4	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°	304.5	43.8
0°-40°	464.2	66.7
0°-60°	642.1	92.3
0°-90°	695.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	695.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	397	397	397	397	397	
5°	373	386	392	410	411	35
15°	335	352	382	414	420	95
25°	313	327	349	373	375	144
35°	264	267	251	256	254	164
45°	186	176	125	121	118	144
55°	131	123	48	42	40	116
65°	80	73	13	10	9	79
75°	37	32	4	3	3	40
85°	9	7	0	0	0	10
90°	0	0	0	0	0	



TEST NUMBER: P859759

CATALOG NUMBER: LX4C08D010 EX4C089830 4LBSWNH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	396.8	396.8	396.8	396.8	396.8	396.8	396.8	396.8	396.8	396.8	396.8
2.5°	384.0	388.6	384.0	385.6	391.7	386.0	389.2	389.2	387.6	391.2	393.7
5°	373.3	377.9	373.3	375.3	381.9	376.3	380.0	378.9	379.4	382.5	386.0
7.5°	362.6	366.1	362.0	364.6	370.7	366.1	369.2	369.2	369.7	374.3	377.4
10°	351.8	354.9	351.8	353.8	360.5	356.4	358.5	358.9	360.5	364.6	369.2
12.5°	342.1	344.7	341.6	344.7	350.3	346.2	348.8	349.2	350.8	355.4	360.5
15°	334.9	337.5	334.4	337.0	342.1	339.0	341.1	342.1	343.1	347.2	351.8
17.5°	329.3	331.4	328.8	331.8	335.9	332.4	335.5	335.5	337.0	341.1	346.2
20°	323.2	325.2	323.2	325.8	330.3	327.3	329.9	329.9	331.4	335.9	340.6
22.5°	317.5	318.5	317.5	319.6	324.1	321.7	323.2	323.7	325.2	329.3	333.4
25°	312.9	315.0	314.0	316.0	319.1	316.6	318.1	318.5	320.1	323.7	327.3
27.5°	307.8	308.8	307.8	310.4	312.9	310.9	312.5	311.9	312.9	316.0	319.1
30°	297.6	298.6	298.6	300.2	302.2	301.2	302.7	301.2	302.2	304.8	307.8
32.5°	282.8	283.3	283.8	285.4	286.9	285.4	286.3	286.3	286.3	288.4	290.4
35°	263.9	264.8	264.4	265.4	266.9	266.5	266.5	265.9	264.8	265.9	266.9
37.5°	242.4	240.9	240.9	242.4	243.4	241.4	242.4	241.4	241.4	241.8	241.8
40°	219.9	218.4	219.9	220.3	220.9	219.9	219.4	218.4	216.8	217.3	216.3
42.5°	201.0	199.9	200.5	200.5	201.0	199.9	200.5	198.4	196.9	195.8	194.3
45°	185.6	184.1	185.6	184.6	184.6	184.1	183.6	182.5	180.5	179.0	176.4
47.5°	171.3	171.3	171.8	171.8	171.8	170.8	170.8	168.7	166.7	164.6	161.0
50°	159.5	158.6	160.6	160.6	159.0	158.6	159.0	156.5	155.0	152.4	148.8
52.5°	146.8	146.8	147.2	147.2	146.8	145.7	146.2	144.2	142.7	140.1	136.5
55°	130.9	129.9	131.4	131.4	130.9	130.4	130.9	129.4	127.9	125.8	122.7
57.5°	113.0	112.4	113.5	114.1	113.0	113.0	113.5	112.0	111.5	109.4	106.4
60°	99.7	99.2	100.2	100.8	99.7	99.7	99.7	97.6	96.7	94.6	92.6
62.5°	90.5	90.0	91.0	90.5	90.0	89.4	90.0	87.9	86.9	84.9	82.8
65°	79.8	80.3	80.8	80.8	80.3	79.8	79.8	78.7	77.8	75.7	73.1
67.5°	69.6	69.6	70.1	70.5	70.1	70.1	70.1	68.5	67.5	66.0	62.9
70°	58.9	58.3	59.8	59.8	58.9	59.3	58.9	58.3	57.2	55.2	52.7
72.5°	47.5	47.5	48.1	48.1	47.5	47.5	47.5	47.1	45.5	44.5	41.9
75°	36.8	36.8	37.4	37.8	36.8	36.8	37.4	36.3	35.3	33.8	32.2
77.5°	27.6	27.1	27.6	27.6	27.1	27.1	27.1	26.6	26.0	24.5	23.0
80°	19.4	18.9	19.4	19.4	19.4	18.9	18.9	18.4	18.4	17.4	15.9
82.5°	13.3	12.8	13.3	13.3	13.3	12.8	12.8	12.8	12.3	11.8	10.7
85°	8.7	8.2	8.2	8.7	8.2	8.2	8.2	8.2	7.7	7.1	6.7
87.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	3.6	3.6	3.6	3.0
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: P859759

CATALOG NUMBER: LX4C08D010 EX4C089830 4LBSWNH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	396.8	396.8	396.8	396.8	396.8	396.8	396.8	396.8	396.8	396.8	396.8
2.5°	391.7	390.7	393.7	392.7	393.3	390.7	394.8	392.7	395.2	392.7	397.8
5°	385.1	384.0	388.6	388.1	388.6	386.6	391.2	390.7	393.7	391.7	397.3
7.5°	377.9	376.9	381.9	382.5	383.5	381.5	387.6	387.6	390.7	390.1	396.3
10°	369.7	370.2	375.3	376.3	378.4	377.4	383.0	384.5	388.6	388.1	395.8
12.5°	362.0	362.0	368.6	370.7	372.2	371.8	378.4	380.4	385.1	386.0	393.3
15°	354.4	354.9	361.0	364.1	366.1	365.6	372.7	375.3	381.0	381.5	390.1
17.5°	348.2	347.7	354.4	356.9	360.0	359.5	367.1	370.2	375.9	377.4	385.6
20°	343.1	342.6	348.8	351.8	353.8	353.3	361.0	364.6	369.7	370.7	378.9
22.5°	337.0	335.9	342.1	344.7	346.7	346.2	352.9	355.4	360.5	361.5	369.2
25°	329.9	328.8	334.4	335.9	337.5	336.5	342.1	343.6	347.7	348.8	356.4
27.5°	321.7	319.1	323.7	323.7	324.7	323.2	327.3	328.8	332.4	332.4	339.6
30°	308.8	305.2	307.8	307.3	307.8	305.8	308.4	308.8	311.4	310.9	316.0
32.5°	291.0	285.8	287.4	285.8	284.3	281.3	284.3	283.3	285.4	283.3	287.9
35°	266.5	261.3	260.7	258.7	257.2	254.7	254.7	252.1	252.6	251.1	254.1
37.5°	239.8	233.2	232.1	228.1	225.5	222.4	222.4	220.3	217.9	216.8	219.4
40°	213.8	206.6	204.0	197.3	194.8	191.7	189.7	187.2	186.1	182.0	184.1
42.5°	191.3	183.6	178.0	170.8	168.3	163.6	160.6	157.5	156.0	151.3	153.4
45°	172.3	163.1	156.9	147.8	144.2	139.1	134.5	130.9	127.3	125.3	124.2
47.5°	156.5	146.8	138.6	128.3	122.7	118.2	112.0	108.4	103.8	101.2	99.7
50°	143.2	132.4	123.2	111.5	105.8	100.8	93.5	87.9	83.8	79.8	78.7
52.5°	131.4	120.2	110.0	96.7	90.0	83.8	76.2	70.1	66.4	61.9	61.4
55°	117.6	107.9	96.7	82.8	76.2	70.1	61.9	55.7	51.1	48.1	47.1
57.5°	102.8	93.5	82.8	69.0	62.4	55.7	48.1	42.4	38.3	35.8	35.3
60°	89.0	80.3	70.1	56.3	49.6	44.0	35.8	30.1	26.6	24.5	23.5
62.5°	78.7	70.5	60.8	48.1	41.9	36.3	28.6	23.5	20.4	18.4	17.4
65°	69.0	60.8	52.2	40.4	35.3	30.1	23.0	18.4	15.3	13.3	12.3
67.5°	58.9	51.6	43.4	33.8	28.6	24.5	18.4	14.3	11.8	10.3	9.2
70°	48.6	41.9	35.3	27.1	23.5	19.4	14.3	11.2	8.7	7.7	6.7
72.5°	38.3	33.3	27.6	21.0	17.9	15.3	11.2	8.2	6.7	5.6	4.6
75°	28.6	25.1	20.4	15.9	13.3	11.2	8.2	6.2	5.1	4.1	3.6
77.5°	20.4	17.4	14.3	10.7	9.7	8.2	5.6	4.6	3.6	2.6	2.1
80°	13.8	12.3	9.7	7.7	6.2	5.6	4.1	3.0	2.1	1.5	1.5
82.5°	9.2	7.7	6.2	4.6	4.1	3.6	2.6	2.1	1.5	1.0	1.0
85°	5.6	4.6	3.6	2.6	2.6	2.1	1.5	1.0	0.5	0.5	0.5
87.5°	2.6	2.1	1.5	1.0	1.0	0.5	0.5	0.5	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: P859759

CATALOG NUMBER: LX4C08D010 EX4C089830 4LBSWNH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	396.8	396.8	396.8	396.8	396.8	396.8	396.8	396.8	396.8	396.8	396.8
2.5°	401.9	398.9	396.8	399.3	400.4	398.9	400.4	403.0	405.5	406.0	398.9
5°	402.4	399.3	398.3	401.4	401.9	401.4	403.0	406.5	409.6	410.6	403.4
7.5°	402.4	400.4	399.9	403.4	404.0	403.4	406.0	410.1	413.1	415.2	408.1
10°	401.4	400.4	400.9	404.0	404.9	404.9	408.6	413.1	416.3	418.3	411.1
12.5°	399.9	399.9	399.9	403.4	404.5	404.9	408.1	414.2	416.3	419.3	412.2
15°	397.3	397.3	397.3	400.9	402.4	402.4	406.0	411.6	414.2	417.2	410.1
17.5°	392.7	392.7	393.3	396.3	397.8	397.8	401.4	407.5	409.0	412.7	405.5
20°	386.0	386.0	386.6	389.7	391.2	390.1	394.8	399.9	401.4	404.5	397.3
22.5°	376.3	376.3	376.3	379.4	380.4	380.0	384.5	389.2	389.2	393.3	385.6
25°	362.0	363.0	362.0	365.1	366.1	365.6	369.7	373.8	372.7	377.4	369.7
27.5°	344.7	344.1	344.1	346.7	346.7	346.2	349.2	353.8	352.9	355.9	348.8
30°	320.6	322.1	319.6	323.2	321.7	320.6	322.6	326.7	325.2	327.8	322.1
32.5°	293.0	291.0	291.0	291.0	292.0	289.5	291.5	293.5	292.0	294.5	288.4
35°	256.7	257.2	255.7	256.2	256.7	253.6	255.7	257.7	255.7	257.2	251.6
37.5°	220.3	220.9	217.3	219.4	217.3	216.3	218.4	219.4	217.3	218.8	212.7
40°	184.1	183.1	182.5	182.5	183.1	180.5	182.0	183.6	182.0	183.1	177.5
42.5°	152.4	151.9	150.9	151.3	149.8	149.3	149.8	151.3	149.8	150.9	146.8
45°	124.8	123.8	122.2	122.7	122.7	120.2	121.7	122.7	121.2	121.7	118.2
47.5°	99.2	97.6	97.6	97.2	97.2	96.1	97.6	97.2	95.6	96.7	93.1
50°	77.2	76.2	76.2	76.2	76.2	74.6	75.2	76.2	74.6	74.6	72.6
52.5°	60.4	58.9	57.8	57.8	57.8	57.2	57.2	57.8	56.3	56.3	55.7
55°	45.5	45.0	43.4	43.4	43.4	41.9	42.4	42.4	41.9	41.9	40.4
57.5°	33.8	32.2	31.2	31.2	30.1	30.1	29.7	30.1	29.2	29.2	28.1
60°	22.5	21.5	21.0	20.4	20.4	20.0	20.4	20.0	20.0	19.4	18.9
62.5°	16.3	15.3	14.3	14.3	14.3	13.8	13.8	13.8	13.8	13.8	13.3
65°	11.8	10.7	10.7	10.3	10.3	9.7	9.7	9.7	9.7	9.7	9.2
67.5°	8.2	7.7	7.1	7.1	7.1	7.1	7.1	7.1	6.7	6.7	6.7
70°	6.2	5.6	5.1	5.1	5.1	5.1	5.1	4.6	5.1	5.1	4.6
72.5°	4.1	4.1	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
75°	3.0	3.0	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
77.5°	2.1	2.1	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
80°	1.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
82.5°	1.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	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: P859759

CATALOG NUMBER: LX4C08D010 EX4C089830 4LBSWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	396.8	396.8	396.8	396.8	396.8	396.8	396.8	396.8
2.5°	406.5	406.0	404.9	406.5	402.4	400.9	400.4	404.9
5°	412.2	411.1	411.1	412.7	408.1	407.0	406.0	411.1
7.5°	417.2	416.3	416.3	417.8	413.7	412.7	411.6	416.7
10°	420.3	420.3	420.3	421.3	417.8	416.7	416.3	421.3
12.5°	421.9	421.9	421.3	423.4	418.8	418.8	417.8	422.9
15°	419.8	419.8	419.8	421.3	417.2	416.3	416.3	420.3
17.5°	414.7	414.7	414.2	415.7	411.1	411.1	410.6	415.2
20°	407.0	407.0	406.0	408.1	403.4	401.9	401.4	406.0
22.5°	394.8	394.2	393.7	394.8	390.7	389.7	389.2	393.3
25°	378.9	378.4	377.4	378.4	373.8	372.2	372.2	375.3
27.5°	356.4	356.4	354.9	356.4	351.3	350.8	350.3	353.8
30°	328.8	326.7	325.8	327.8	322.6	322.6	321.7	325.2
32.5°	294.5	292.5	292.0	293.0	288.4	286.9	288.9	291.0
35°	255.1	255.7	253.6	253.6	249.5	250.0	250.6	253.6
37.5°	217.3	216.3	215.8	216.3	213.2	212.2	211.2	214.3
40°	182.0	179.5	179.0	179.0	176.4	175.9	176.4	178.0
42.5°	148.8	148.3	146.2	147.2	144.7	145.7	145.3	145.3
45°	120.2	120.7	118.6	120.2	118.2	116.6	116.6	117.6
47.5°	95.1	95.1	94.6	94.6	93.1	93.5	92.6	94.1
50°	73.7	73.7	72.6	73.1	72.1	72.1	71.6	72.1
52.5°	56.3	55.7	55.7	55.2	54.2	54.8	55.2	54.2
55°	40.9	41.4	40.4	40.9	39.9	40.4	39.9	40.4
57.5°	28.1	28.6	27.6	28.6	27.6	28.1	27.6	27.6
60°	19.4	19.4	18.9	19.4	18.9	18.9	18.4	19.4
62.5°	13.3	13.3	13.3	13.3	13.3	12.8	13.3	13.3
65°	9.7	9.2	9.2	9.2	9.2	9.2	9.2	9.2
67.5°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
70°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
72.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
75°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
77.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
85°	0.5	0.5	0.5	0.0	0.5	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)