

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: P859785

Luminaire Tested: **LX4C08D010 EX4C089840 4LBSWNH**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P859785
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 EX4C089840 4LBSWNH
Description:
Light Source: -
Ballast/Driver: -

Summary

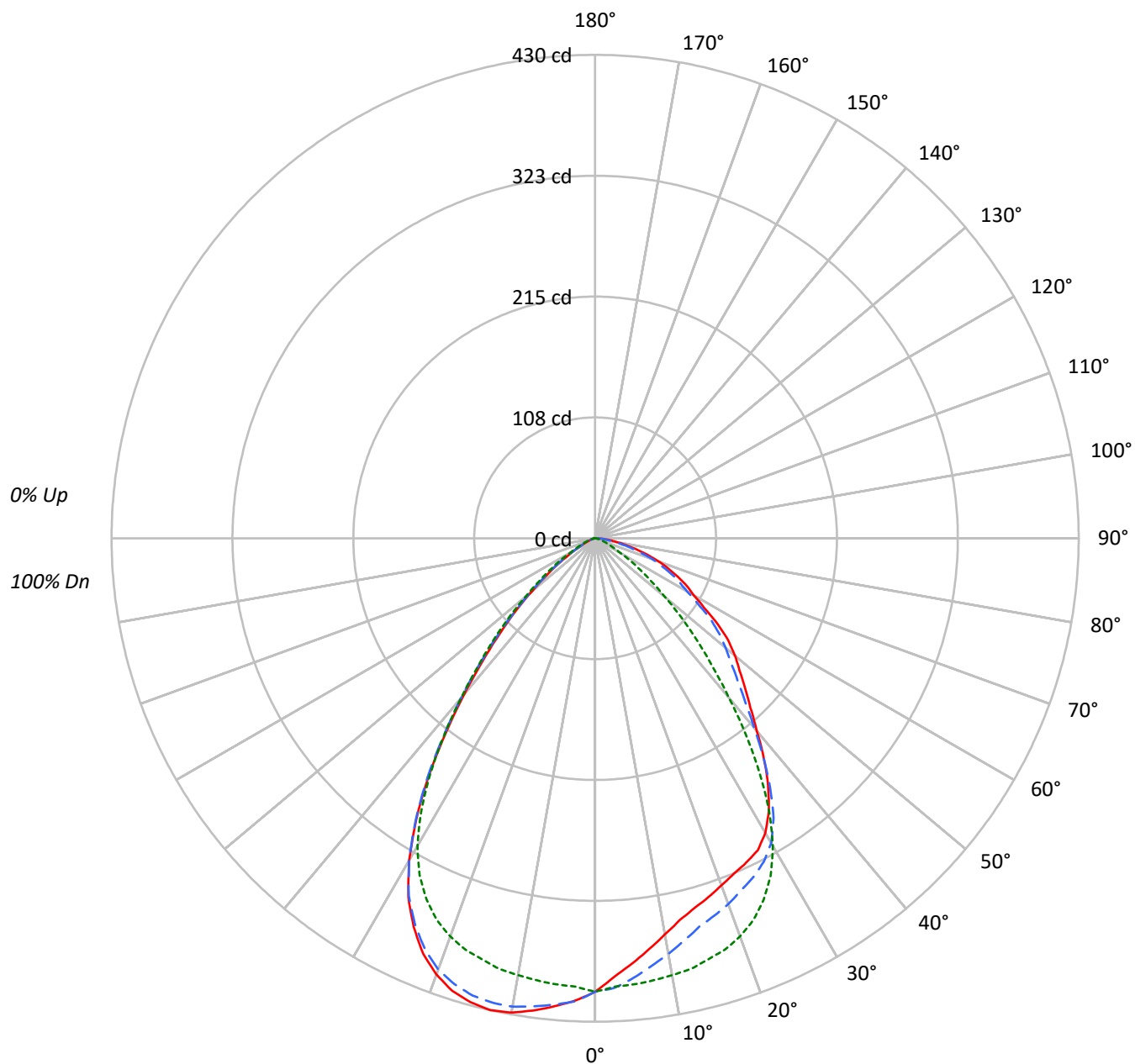
Lumens per Lamp: N/A
Luminaire Lumens: 707.2 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

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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
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°	49559	49559	49559
5°	46801	49119	51549
10°	44623	49226	53442
15°	43307	49323	54347
20°	42947	49275	53969
25°	43133	48067	51727
30°	42927	44827	46913
35°	40224	38289	38679
40°	35860	29669	29012
45°	32785	22117	20779
50°	31001	15500	14010
55°	28508	10474	8782
60°	24915	6143	4840
65°	23575	3953	2733
70°	21480	2802	1688
75°	17800	1994	1234
80°	13937	1132	778
85°	12404	705	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.1	5.4
10°-20°	109.3	15.5
20°-30°	162.1	22.9
30°-40°	162.3	23.0
40°-50°	113.4	16.0
50°-60°	67.5	9.5
60°-70°	35.2	5.0
70°-80°	15.7	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°	309.6	43.8
0°-40°	471.9	66.7
0°-60°	652.8	92.3
0°-90°	707.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	707.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	403	403	403	403	403	
5°	380	392	398	416	418	36
15°	340	358	388	421	427	96
25°	318	333	355	379	382	147
35°	268	271	255	260	258	166
45°	189	179	127	123	120	147
55°	133	125	49	43	41	118
65°	81	74	14	10	9	80
75°	38	33	4	3	3	40
85°	9	7	0	0	0	10
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°	403.4	403.4	403.4	403.4	403.4	403.4	403.4	403.4	403.4	403.4	403.4
2.5°	390.4	395.1	390.4	392.0	398.3	392.5	395.6	395.6	394.1	397.7	400.3
5°	379.5	384.2	379.5	381.6	388.4	382.6	386.3	385.2	385.8	388.9	392.5
7.5°	368.6	372.2	368.0	370.7	376.9	372.2	375.3	375.3	375.9	380.5	383.7
10°	357.7	360.8	357.7	359.7	366.5	362.3	364.5	364.9	366.5	370.7	375.3
12.5°	347.8	350.4	347.2	350.4	356.1	352.0	354.6	355.1	356.6	361.3	366.5
15°	340.5	343.1	340.0	342.6	347.8	344.7	346.7	347.8	348.8	353.0	357.7
17.5°	334.8	336.9	334.3	337.4	341.5	337.9	341.0	341.0	342.6	346.7	352.0
20°	328.5	330.7	328.5	331.2	335.8	332.7	335.3	335.3	336.9	341.5	346.3
22.5°	322.8	323.9	322.8	325.0	329.6	327.0	328.5	329.1	330.7	334.8	339.0
25°	318.2	320.2	319.2	321.3	324.4	321.8	323.3	323.9	325.4	329.1	332.7
27.5°	313.0	314.0	313.0	315.6	318.2	316.0	317.6	317.1	318.2	321.3	324.4
30°	302.6	303.6	303.6	305.2	307.3	306.2	307.7	306.2	307.3	309.9	313.0
32.5°	287.5	288.0	288.6	290.1	291.6	290.1	291.2	291.2	291.2	293.2	295.3
35°	268.2	269.3	268.8	269.8	271.4	270.8	270.8	270.3	269.3	270.3	271.4
37.5°	246.4	244.9	244.9	246.4	247.5	245.4	246.4	245.4	245.4	245.9	245.9
40°	223.6	222.0	223.6	224.1	224.5	223.6	223.0	222.0	220.4	221.0	219.9
42.5°	204.3	203.2	203.8	203.8	204.3	203.2	203.8	201.7	200.1	199.1	197.5
45°	188.7	187.2	188.7	187.7	187.7	187.2	186.6	185.6	183.5	182.0	179.3
47.5°	174.2	174.2	174.7	174.7	174.7	173.6	173.6	171.6	169.4	167.4	163.7
50°	162.2	161.1	163.3	163.3	161.7	161.1	161.7	159.1	157.6	154.9	151.2
52.5°	149.2	149.2	149.7	149.7	149.2	148.1	148.7	146.6	145.0	142.4	138.8
55°	133.1	132.1	133.6	133.6	133.1	132.6	133.1	131.5	130.0	127.9	124.8
57.5°	114.9	114.4	115.4	115.9	114.9	114.9	115.4	113.9	113.3	111.3	108.2
60°	101.4	100.9	101.9	102.5	101.4	101.4	101.4	99.3	98.3	96.1	94.1
62.5°	92.0	91.5	92.6	92.0	91.5	91.0	91.5	89.4	88.4	86.3	84.3
65°	81.1	81.6	82.1	82.1	81.6	81.1	81.1	80.1	79.0	77.0	74.4
67.5°	70.7	70.7	71.3	71.7	71.3	71.3	71.3	69.6	68.6	67.1	63.9
70°	59.8	59.3	60.8	60.8	59.8	60.3	59.8	59.3	58.2	56.2	53.6
72.5°	48.3	48.3	48.9	48.9	48.3	48.3	48.3	47.8	46.3	45.2	42.6
75°	37.5	37.5	38.0	38.4	37.5	37.5	38.0	36.9	35.8	34.3	32.7
77.5°	28.1	27.6	28.1	28.1	27.6	27.6	27.6	27.0	26.5	25.0	23.4
80°	19.7	19.3	19.7	19.7	19.7	19.3	19.3	18.7	18.7	17.7	16.1
82.5°	13.6	13.0	13.6	13.6	13.6	13.0	13.0	13.0	12.5	11.9	10.9
85°	8.8	8.3	8.3	8.8	8.3	8.3	8.3	8.3	7.8	7.3	6.8
87.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	3.7	3.7	3.7	3.1
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°	403.4	403.4	403.4	403.4	403.4	403.4	403.4	403.4	403.4	403.4	403.4
2.5°	398.3	397.2	400.3	399.2	399.8	397.2	401.4	399.2	401.8	399.2	404.5
5°	391.5	390.4	395.1	394.6	395.1	393.0	397.7	397.2	400.3	398.3	404.0
7.5°	384.2	383.2	388.4	388.9	389.9	387.8	394.1	394.1	397.2	396.6	402.9
10°	375.9	376.4	381.6	382.6	384.7	383.7	389.3	390.9	395.1	394.6	402.4
12.5°	368.0	368.0	374.8	376.9	378.5	377.9	384.7	386.7	391.5	392.5	399.8
15°	360.3	360.8	367.0	370.2	372.2	371.7	379.0	381.6	387.3	387.8	396.6
17.5°	354.0	353.5	360.3	362.8	366.0	365.4	373.3	376.4	382.1	383.7	392.0
20°	348.8	348.3	354.6	357.7	359.7	359.2	367.0	370.7	375.9	376.9	385.2
22.5°	342.6	341.5	347.8	350.4	352.5	352.0	358.7	361.3	366.5	367.6	375.3
25°	335.3	334.3	340.0	341.5	343.1	342.1	347.8	349.4	353.5	354.6	362.3
27.5°	327.0	324.4	329.1	329.1	330.1	328.5	332.7	334.3	337.9	337.9	345.2
30°	314.0	310.3	313.0	312.5	313.0	310.9	313.4	314.0	316.6	316.0	321.3
32.5°	295.8	290.6	292.1	290.6	289.0	285.9	289.0	288.0	290.1	288.0	292.7
35°	270.8	265.6	265.1	263.1	261.5	258.9	258.9	256.3	256.8	255.3	258.4
37.5°	243.8	237.0	236.0	231.9	229.3	226.1	226.1	224.1	221.4	220.4	223.0
40°	217.3	210.0	207.4	200.6	198.1	194.9	192.9	190.3	189.2	185.0	187.2
42.5°	194.4	186.6	180.9	173.6	171.0	166.3	163.3	160.2	158.6	153.9	156.0
45°	175.2	165.9	159.6	150.3	146.6	141.4	136.7	133.1	129.5	127.3	126.4
47.5°	159.1	149.2	140.9	130.5	124.8	120.1	113.9	110.2	105.6	102.9	101.4
50°	145.5	134.7	125.3	113.3	107.6	102.5	95.1	89.4	85.3	81.1	80.1
52.5°	133.6	122.2	111.7	98.3	91.5	85.3	77.5	71.3	67.6	62.9	62.4
55°	119.6	109.7	98.3	84.3	77.5	71.3	62.9	56.7	52.0	48.9	47.8
57.5°	104.5	95.1	84.3	70.2	63.4	56.7	48.9	43.2	39.0	36.4	35.8
60°	90.4	81.6	71.3	57.2	50.4	44.7	36.4	30.7	27.0	25.0	23.9
62.5°	80.1	71.7	61.9	48.9	42.6	36.9	29.2	23.9	20.8	18.7	17.7
65°	70.2	61.9	53.1	41.0	35.8	30.7	23.4	18.7	15.6	13.6	12.5
67.5°	59.8	52.5	44.1	34.3	29.2	25.0	18.7	14.5	11.9	10.4	9.4
70°	49.4	42.6	35.8	27.6	23.9	19.7	14.5	11.4	8.8	7.8	6.8
72.5°	39.0	33.8	28.1	21.3	18.2	15.6	11.4	8.3	6.8	5.7	4.7
75°	29.2	25.5	20.8	16.1	13.6	11.4	8.3	6.2	5.2	4.2	3.7
77.5°	20.8	17.7	14.5	10.9	9.9	8.3	5.7	4.7	3.7	2.6	2.1
80°	14.0	12.5	9.9	7.8	6.2	5.7	4.2	3.1	2.1	1.6	1.6
82.5°	9.4	7.8	6.2	4.7	4.2	3.7	2.6	2.1	1.6	1.1	1.1
85°	5.7	4.7	3.7	2.6	2.6	2.1	1.6	1.1	0.5	0.5	0.5
87.5°	2.6	2.1	1.6	1.1	1.1	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	403.4	403.4	403.4	403.4	403.4	403.4	403.4	403.4	403.4	403.4	403.4
2.5°	408.6	405.5	403.4	406.0	407.1	405.5	407.1	409.7	412.3	412.8	405.5
5°	409.1	406.0	404.9	408.1	408.6	408.1	409.7	413.3	416.4	417.4	410.2
7.5°	409.1	407.1	406.5	410.2	410.7	410.2	412.8	416.9	420.0	422.2	414.8
10°	408.1	407.1	407.6	410.7	411.7	411.7	415.4	420.0	423.1	425.3	418.0
12.5°	406.5	406.5	406.5	410.2	411.2	411.7	414.8	421.1	423.1	426.3	419.0
15°	404.0	404.0	404.0	407.6	409.1	409.1	412.8	418.5	421.1	424.2	416.9
17.5°	399.2	399.2	399.8	402.9	404.5	404.5	408.1	414.3	415.9	419.6	412.3
20°	392.5	392.5	393.0	396.1	397.7	396.6	401.4	406.5	408.1	411.2	404.0
22.5°	382.6	382.6	382.6	385.8	386.7	386.3	390.9	395.6	395.6	399.8	392.0
25°	368.0	369.1	368.0	371.1	372.2	371.7	375.9	380.1	379.0	383.7	375.9
27.5°	350.4	349.8	349.8	352.5	352.5	352.0	355.1	359.7	358.7	361.9	354.6
30°	325.9	327.5	325.0	328.5	327.0	325.9	328.1	332.2	330.7	333.2	327.5
32.5°	297.8	295.8	295.8	295.8	296.9	294.3	296.3	298.4	296.9	299.4	293.2
35°	261.0	261.5	259.9	260.5	261.0	257.9	259.9	262.0	259.9	261.5	255.8
37.5°	224.1	224.5	221.0	223.0	221.0	219.9	222.0	223.0	221.0	222.5	216.2
40°	187.2	186.1	185.6	185.6	186.1	183.5	185.0	186.6	185.0	186.1	180.4
42.5°	154.9	154.4	153.4	153.9	152.3	151.8	152.3	153.9	152.3	153.4	149.2
45°	126.8	125.8	124.2	124.8	124.8	122.2	123.7	124.8	123.2	123.7	120.1
47.5°	100.9	99.3	99.3	98.8	98.8	97.7	99.3	98.8	97.2	98.3	94.6
50°	78.5	77.5	77.5	77.5	77.5	75.9	76.4	77.5	75.9	75.9	73.8
52.5°	61.4	59.8	58.8	58.8	58.8	58.2	58.2	58.8	57.2	57.2	56.7
55°	46.3	45.7	44.1	44.1	44.1	42.6	43.2	43.2	42.6	42.6	41.0
57.5°	34.3	32.7	31.7	31.7	30.7	30.7	30.1	30.7	29.6	29.6	28.6
60°	22.8	21.8	21.3	20.8	20.8	20.2	20.8	20.2	20.2	19.7	19.3
62.5°	16.6	15.6	14.5	14.5	14.5	14.0	14.0	14.0	14.0	14.0	13.6
65°	11.9	10.9	10.9	10.4	10.4	9.9	9.9	9.9	9.9	9.9	9.4
67.5°	8.3	7.8	7.3	7.3	7.3	7.3	7.3	7.3	6.8	6.8	6.8
70°	6.2	5.7	5.2	5.2	5.2	5.2	5.2	4.7	5.2	5.2	4.7
72.5°	4.2	4.2	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
75°	3.1	3.1	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
77.5°	2.1	2.1	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
80°	1.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
82.5°	1.1	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: P859785

CATALOG NUMBER: LX4C08D010 EX4C089840 4LBSWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	403.4	403.4	403.4	403.4	403.4	403.4	403.4	403.4
2.5°	413.3	412.8	411.7	413.3	409.1	407.6	407.1	411.7
5°	419.0	418.0	418.0	419.6	414.8	413.8	412.8	418.0
7.5°	424.2	423.1	423.1	424.7	420.5	419.6	418.5	423.7
10°	427.3	427.3	427.3	428.4	424.7	423.7	423.1	428.4
12.5°	428.9	428.9	428.4	430.4	425.8	425.8	424.7	429.9
15°	426.8	426.8	426.8	428.4	424.2	423.1	423.1	427.3
17.5°	421.6	421.6	421.1	422.7	418.0	418.0	417.4	422.2
20°	413.8	413.8	412.8	414.8	410.2	408.6	408.1	412.8
22.5°	401.4	400.8	400.3	401.4	397.2	396.1	395.6	399.8
25°	385.2	384.7	383.7	384.7	380.1	378.5	378.5	381.6
27.5°	362.3	362.3	360.8	362.3	357.1	356.6	356.1	359.7
30°	334.3	332.2	331.2	333.2	328.1	328.1	327.0	330.7
32.5°	299.4	297.4	296.9	297.8	293.2	291.6	293.7	295.8
35°	259.4	259.9	257.9	257.9	253.7	254.2	254.8	257.9
37.5°	221.0	219.9	219.4	219.9	216.8	215.7	214.7	217.9
40°	185.0	182.5	182.0	182.0	179.3	178.9	179.3	180.9
42.5°	151.2	150.8	148.7	149.7	147.1	148.1	147.7	147.7
45°	122.2	122.7	120.6	122.2	120.1	118.5	118.5	119.6
47.5°	96.7	96.7	96.1	96.1	94.6	95.1	94.1	95.7
50°	74.8	74.8	73.8	74.4	73.3	73.3	72.8	73.3
52.5°	57.2	56.7	56.7	56.2	55.1	55.6	56.2	55.1
55°	41.6	42.1	41.0	41.6	40.6	41.0	40.6	41.0
57.5°	28.6	29.2	28.1	29.2	28.1	28.6	28.1	28.1
60°	19.7	19.7	19.3	19.7	19.3	19.3	18.7	19.7
62.5°	13.6	13.6	13.6	13.6	13.6	13.0	13.6	13.6
65°	9.9	9.4	9.4	9.4	9.4	9.4	9.4	9.4
67.5°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
70°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
72.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
75°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
77.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
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)