

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: P859798

Luminaire Tested: **LX4C08D010 EX4C089850 4LBSWNH**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P859798
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 EX4C089850 4LBSWNH
Description:
Light Source: -
Ballast/Driver: -

Summary

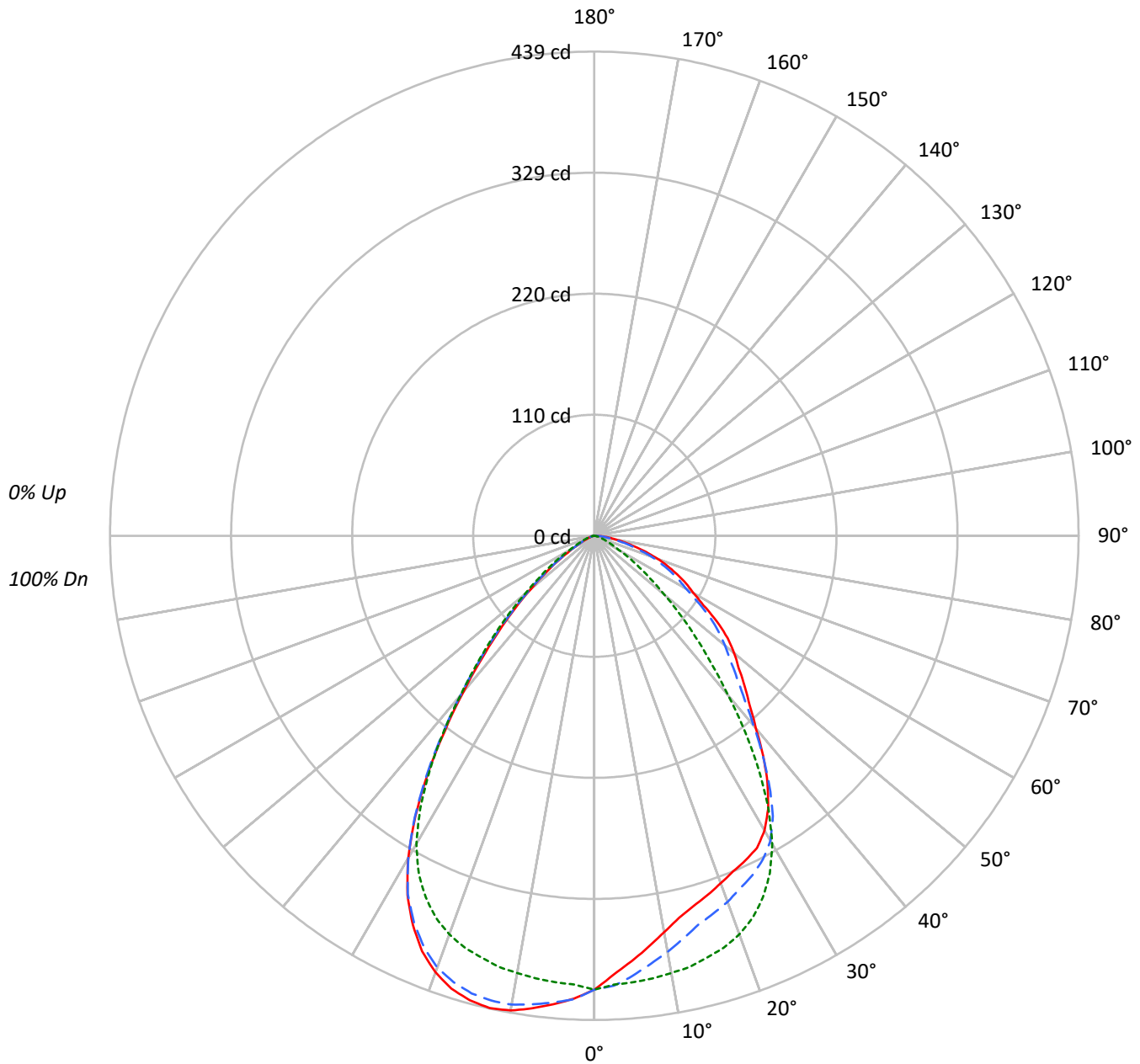
Lumens per Lamp: N/A
Luminaire Lumens: 721.4 lumens
Efficiency: N/A
Efficacy: 72.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	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	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89		
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79		
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70		
4	90	80	72	67	88	78	72	66	76	70	66	74	69	65	72	68	64	62		
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56		
6	78	67	59	53	76	66	59	53	64	58	53	62	57	52	61	56	52	50		
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	56	51	47	46		
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42		
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38		
10	61	49	42	37	59	48	42	37	47	41	37	47	41	37	46	40	37	35		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	50554	50554	50554
5°	47751	50106	52585
10°	45521	50211	54515
15°	44185	50328	55454
20°	43823	50269	55054
25°	44001	49030	52758
30°	43778	45750	47849
35°	41049	39054	39459
40°	36565	30279	29605
45°	33445	22569	21196
50°	31631	15825	14296
55°	29087	10667	8974
60°	25406	6241	4963
65°	24070	4012	2762
70°	21911	2838	1724
75°	18132	2041	1282
80°	14291	1132	778
85°	12686	705	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.9	5.4
10°-20°	111.6	15.5
20°-30°	165.4	22.9
30°-40°	165.6	23.0
40°-50°	115.7	16.0
50°-60°	68.9	9.5
60°-70°	35.9	5.0
70°-80°	16.0	2.2
80°-90°	3.5	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°	315.8	43.8
0°-40°	481.4	66.7
0°-60°	666.0	92.3
0°-90°	721.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	721.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	412	412	412	412	412	
5°	387	400	406	425	426	36
15°	347	365	396	430	436	98
25°	325	339	362	387	389	150
35°	274	277	260	265	263	170
45°	192	183	130	126	122	149
55°	136	127	50	44	42	120
65°	83	76	14	10	10	82
75°	38	33	4	3	3	41
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°	411.5	411.5	411.5	411.5	411.5	411.5	411.5	411.5	411.5	411.5	411.5
2.5°	398.3	403.1	398.3	399.9	406.3	400.4	403.6	403.6	402.0	405.7	408.4
5°	387.2	391.9	387.2	389.2	396.2	390.3	394.1	393.0	393.5	396.7	400.4
7.5°	376.0	379.7	375.5	378.2	384.5	379.7	382.9	382.9	383.4	388.2	391.4
10°	364.9	368.0	364.9	367.0	373.9	369.6	371.8	372.3	373.9	378.2	382.9
12.5°	354.8	357.5	354.3	357.5	363.3	359.0	361.7	362.2	363.8	368.6	373.9
15°	347.4	350.0	346.9	349.5	354.8	351.6	353.8	354.8	355.9	360.1	364.9
17.5°	341.5	343.7	341.0	344.2	348.4	344.7	348.0	348.0	349.5	353.8	359.0
20°	335.2	337.3	335.2	337.9	342.6	339.4	342.1	342.1	343.7	348.4	353.2
22.5°	329.3	330.4	329.3	331.5	336.3	333.6	335.2	335.7	337.3	341.5	345.8
25°	324.6	326.7	325.7	327.7	330.9	328.3	329.9	330.4	332.0	335.7	339.4
27.5°	319.2	320.3	319.2	321.9	324.6	322.5	324.1	323.5	324.6	327.7	330.9
30°	308.6	309.7	309.7	311.3	313.4	312.4	314.0	312.4	313.4	316.1	319.2
32.5°	293.3	293.8	294.4	296.0	297.5	296.0	297.0	297.0	297.0	299.1	301.2
35°	273.7	274.7	274.2	275.3	276.8	276.4	276.4	275.8	274.7	275.8	276.8
37.5°	251.4	249.8	249.8	251.4	252.5	250.3	251.4	250.3	250.3	250.8	250.8
40°	228.0	226.5	228.0	228.6	229.1	228.0	227.5	226.5	224.9	225.4	224.4
42.5°	208.4	207.3	207.9	207.9	208.4	207.3	207.9	205.8	204.2	203.1	201.5
45°	192.5	190.9	192.5	191.5	191.5	190.9	190.4	189.3	187.2	185.7	183.0
47.5°	177.6	177.6	178.2	178.2	178.2	177.1	177.1	175.0	172.9	170.8	167.1
50°	165.5	164.4	166.5	166.5	165.0	164.4	165.0	162.3	160.7	158.0	154.4
52.5°	152.2	152.2	152.8	152.8	152.2	151.2	151.7	149.5	147.9	145.4	141.6
55°	135.8	134.7	136.3	136.3	135.8	135.3	135.8	134.2	132.6	130.5	127.3
57.5°	117.2	116.6	117.7	118.2	117.2	117.2	117.7	116.2	115.6	113.5	110.3
60°	103.4	102.9	104.0	104.5	103.4	103.4	103.4	101.3	100.2	98.1	96.0
62.5°	93.9	93.4	94.4	93.9	93.4	92.8	93.4	91.2	90.2	88.0	86.0
65°	82.8	83.3	83.8	83.8	83.3	82.8	82.8	81.7	80.6	78.5	75.8
67.5°	72.1	72.1	72.7	73.2	72.7	72.7	72.7	71.1	70.0	68.4	65.3
70°	61.0	60.5	62.1	62.1	61.0	61.5	61.0	60.5	59.4	57.2	54.7
72.5°	49.3	49.3	49.8	49.8	49.3	49.3	49.3	48.8	47.2	46.1	43.5
75°	38.2	38.2	38.7	39.2	38.2	38.2	38.7	37.6	36.6	35.0	33.4
77.5°	28.6	28.1	28.6	28.6	28.1	28.1	28.1	27.6	27.0	25.4	23.9
80°	20.2	19.6	20.2	20.2	20.2	19.6	19.6	19.1	19.1	18.0	16.4
82.5°	13.8	13.3	13.8	13.8	13.8	13.3	13.3	13.3	12.8	12.2	11.1
85°	9.0	8.5	8.5	9.0	8.5	8.5	8.5	8.5	7.9	7.4	6.9
87.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	3.7	3.7	3.7	3.2
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°	411.5	411.5	411.5	411.5	411.5	411.5	411.5	411.5	411.5	411.5	411.5
2.5°	406.3	405.2	408.4	407.3	407.8	405.2	409.4	407.3	409.9	407.3	412.6
5°	399.3	398.3	403.1	402.5	403.1	400.9	405.7	405.2	408.4	406.3	412.1
7.5°	391.9	390.9	396.2	396.7	397.8	395.7	402.0	402.0	405.2	404.7	411.0
10°	383.4	384.0	389.2	390.3	392.5	391.4	397.3	398.9	403.1	402.5	410.5
12.5°	375.5	375.5	382.4	384.5	386.1	385.6	392.5	394.6	399.3	400.4	407.8
15°	367.6	368.0	374.4	377.7	379.7	379.2	386.7	389.2	395.1	395.7	404.7
17.5°	361.2	360.6	367.6	370.2	373.4	372.8	380.8	384.0	389.8	391.4	399.9
20°	355.9	355.4	361.7	364.9	367.0	366.5	374.4	378.2	383.4	384.5	393.0
22.5°	349.5	348.4	354.8	357.5	359.6	359.0	366.0	368.6	373.9	375.0	382.9
25°	342.1	341.0	346.9	348.4	350.0	348.9	354.8	356.4	360.6	361.7	369.6
27.5°	333.6	330.9	335.7	335.7	336.8	335.2	339.4	341.0	344.7	344.7	352.1
30°	320.3	316.7	319.2	318.7	319.2	317.2	319.8	320.3	323.0	322.5	327.7
32.5°	301.8	296.5	298.1	296.5	294.9	291.7	294.9	293.8	296.0	293.8	298.6
35°	276.4	271.0	270.5	268.3	266.8	264.1	264.1	261.5	262.0	260.4	263.6
37.5°	248.7	241.8	240.8	236.6	233.9	230.7	230.7	228.6	226.0	224.9	227.5
40°	221.7	214.3	211.6	204.7	202.1	198.9	196.7	194.1	193.1	188.8	190.9
42.5°	198.3	190.4	184.6	177.1	174.5	169.7	166.5	163.4	161.8	156.9	159.1
45°	178.7	169.2	162.8	153.3	149.5	144.3	139.5	135.8	132.1	129.9	128.9
47.5°	162.3	152.2	143.7	133.1	127.3	122.5	116.2	112.4	107.6	105.0	103.4
50°	148.5	137.3	127.8	115.6	109.8	104.5	97.0	91.2	86.9	82.8	81.7
52.5°	136.3	124.7	114.1	100.2	93.4	86.9	79.0	72.7	68.9	64.2	63.7
55°	122.0	111.9	100.2	86.0	79.0	72.7	64.2	57.8	53.1	49.8	48.8
57.5°	106.7	97.0	86.0	71.6	64.7	57.8	49.8	44.1	39.8	37.1	36.6
60°	92.3	83.3	72.7	58.3	51.5	45.7	37.1	31.3	27.6	25.4	24.3
62.5°	81.7	73.2	63.1	49.8	43.5	37.6	29.7	24.3	21.2	19.1	18.0
65°	71.6	63.1	54.1	41.9	36.6	31.3	23.9	19.1	15.9	13.8	12.8
67.5°	61.0	53.6	45.0	35.0	29.7	25.4	19.1	14.8	12.2	10.6	9.5
70°	50.4	43.5	36.6	28.1	24.3	20.2	14.8	11.7	9.0	7.9	6.9
72.5°	39.8	34.5	28.6	21.8	18.5	15.9	11.7	8.5	6.9	5.9	4.8
75°	29.7	25.9	21.2	16.4	13.8	11.7	8.5	6.3	5.3	4.3	3.7
77.5°	21.2	18.0	14.8	11.1	10.1	8.5	5.9	4.8	3.7	2.7	2.1
80°	14.4	12.8	10.1	7.9	6.3	5.9	4.3	3.2	2.1	1.6	1.6
82.5°	9.5	7.9	6.3	4.8	4.3	3.7	2.7	2.1	1.6	1.1	1.1
85°	5.9	4.8	3.7	2.7	2.7	2.1	1.6	1.1	0.5	0.5	0.5
87.5°	2.7	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°	411.5	411.5	411.5	411.5	411.5	411.5	411.5	411.5	411.5	411.5	411.5
2.5°	416.9	413.7	411.5	414.2	415.3	413.7	415.3	418.0	420.5	421.1	413.7
5°	417.4	414.2	413.1	416.4	416.9	416.4	418.0	421.6	424.8	425.9	418.5
7.5°	417.4	415.3	414.7	418.5	418.9	418.5	421.1	425.4	428.5	430.6	423.2
10°	416.4	415.3	415.8	418.9	420.0	420.0	423.8	428.5	431.7	433.8	426.4
12.5°	414.7	414.7	414.7	418.5	419.6	420.0	423.2	429.6	431.7	434.9	427.5
15°	412.1	412.1	412.1	415.8	417.4	417.4	421.1	427.0	429.6	432.8	425.4
17.5°	407.3	407.3	407.8	411.0	412.6	412.6	416.4	422.7	424.3	428.0	420.5
20°	400.4	400.4	400.9	404.1	405.7	404.7	409.4	414.7	416.4	419.6	412.1
22.5°	390.3	390.3	390.3	393.5	394.6	394.1	398.9	403.6	403.6	407.8	399.9
25°	375.5	376.6	375.5	378.6	379.7	379.2	383.4	387.7	386.7	391.4	383.4
27.5°	357.5	357.0	357.0	359.6	359.6	359.0	362.2	367.0	366.0	369.1	361.7
30°	332.5	334.1	331.5	335.2	333.6	332.5	334.7	338.9	337.3	339.9	334.1
32.5°	303.9	301.8	301.8	301.8	302.8	300.2	302.3	304.4	302.8	305.5	299.1
35°	266.3	266.8	265.2	265.7	266.3	263.1	265.2	267.3	265.2	266.8	260.9
37.5°	228.6	229.1	225.4	227.5	225.4	224.4	226.5	227.5	225.4	226.9	220.6
40°	190.9	189.9	189.3	189.3	189.9	187.2	188.8	190.4	188.8	189.9	184.1
42.5°	158.0	157.5	156.5	156.9	155.3	154.9	155.3	156.9	155.3	156.5	152.2
45°	129.4	128.3	126.7	127.3	127.3	124.7	126.2	127.3	125.7	126.2	122.5
47.5°	102.9	101.3	101.3	100.8	100.8	99.7	101.3	100.8	99.2	100.2	96.5
50°	80.1	79.0	79.0	79.0	79.0	77.4	77.9	79.0	77.4	77.4	75.3
52.5°	62.6	61.0	59.9	59.9	59.9	59.4	59.4	59.9	58.3	58.3	57.8
55°	47.2	46.6	45.0	45.0	45.0	43.5	44.1	44.1	43.5	43.5	41.9
57.5°	35.0	33.4	32.4	32.4	31.3	31.3	30.8	31.3	30.2	30.2	29.2
60°	23.4	22.3	21.8	21.2	21.2	20.7	21.2	20.7	20.7	20.2	19.6
62.5°	16.9	15.9	14.8	14.8	14.8	14.4	14.4	14.4	14.4	14.4	13.8
65°	12.2	11.1	11.1	10.6	10.6	10.1	10.1	10.1	10.1	10.1	9.5
67.5°	8.5	7.9	7.4	7.4	7.4	7.4	7.4	7.4	6.9	6.9	6.9
70°	6.3	5.9	5.3	5.3	5.3	5.3	5.3	4.8	5.3	5.3	4.8
72.5°	4.3	4.3	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
75°	3.2	3.2	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
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



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CATALOG NUMBER: LX4C08D010 EX4C089850 4LBSWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	411.5	411.5	411.5	411.5	411.5	411.5	411.5	411.5
2.5°	421.6	421.1	420.0	421.6	417.4	415.8	415.3	420.0
5°	427.5	426.4	426.4	428.0	423.2	422.2	421.1	426.4
7.5°	432.8	431.7	431.7	433.3	429.1	428.0	427.0	432.2
10°	436.0	436.0	436.0	437.0	433.3	432.2	431.7	437.0
12.5°	437.6	437.6	437.0	439.1	434.4	434.4	433.3	438.6
15°	435.4	435.4	435.4	437.0	432.8	431.7	431.7	436.0
17.5°	430.1	430.1	429.6	431.2	426.4	426.4	425.9	430.6
20°	422.2	422.2	421.1	423.2	418.5	416.9	416.4	421.1
22.5°	409.4	408.9	408.4	409.4	405.2	404.1	403.6	407.8
25°	393.0	392.5	391.4	392.5	387.7	386.1	386.1	389.2
27.5°	369.6	369.6	368.0	369.6	364.4	363.8	363.3	367.0
30°	341.0	338.9	337.9	339.9	334.7	334.7	333.6	337.3
32.5°	305.5	303.4	302.8	303.9	299.1	297.5	299.6	301.8
35°	264.7	265.2	263.1	263.1	258.8	259.3	259.9	263.1
37.5°	225.4	224.4	223.8	224.4	221.2	220.1	219.0	222.2
40°	188.8	186.2	185.7	185.7	183.0	182.5	183.0	184.6
42.5°	154.4	153.8	151.7	152.8	150.1	151.2	150.6	150.6
45°	124.7	125.1	123.1	124.7	122.5	120.9	120.9	122.0
47.5°	98.6	98.6	98.1	98.1	96.5	97.0	96.0	97.6
50°	76.3	76.3	75.3	75.8	74.8	74.8	74.3	74.8
52.5°	58.3	57.8	57.8	57.2	56.2	56.7	57.2	56.2
55°	42.4	43.0	41.9	42.4	41.4	41.9	41.4	41.9
57.5°	29.2	29.7	28.6	29.7	28.6	29.2	28.6	28.6
60°	20.2	20.2	19.6	20.2	19.6	19.6	19.1	20.2
62.5°	13.8	13.8	13.8	13.8	13.8	13.3	13.8	13.8
65°	10.1	9.5	9.5	9.5	9.5	9.5	9.5	9.5
67.5°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
70°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
72.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
75°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
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)