

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: P859772

Luminaire Tested: **LX4C08D010 EX4C089835 4LBSWNH**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P859772
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 EX4C089835 4LBSWNH
Description:
Light Source: -
Ballast/Driver: -

Summary

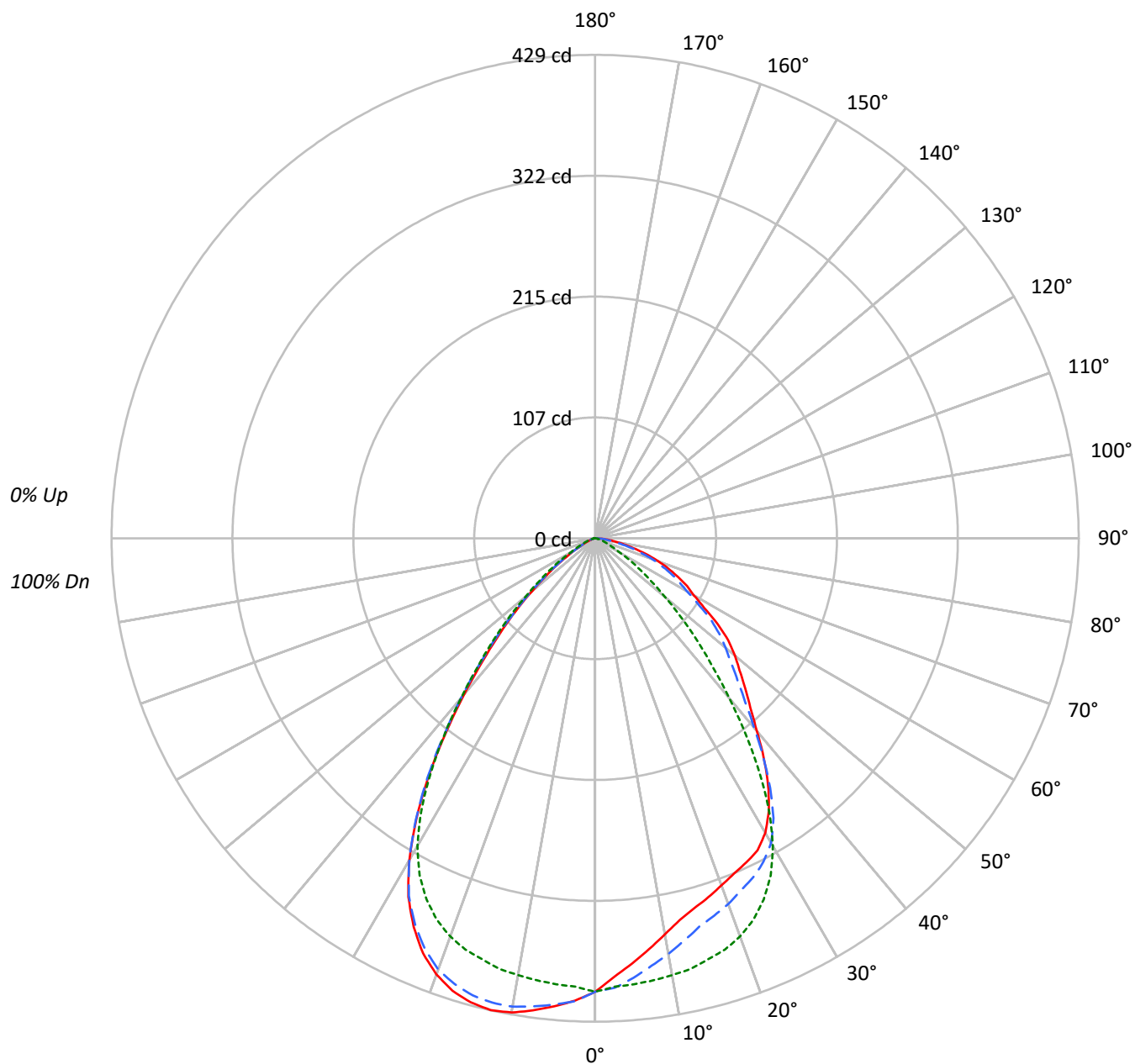
Lumens per Lamp: N/A
Luminaire Lumens: 705.4 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

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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°	49436	49436	49436
5°	46678	48984	51413
10°	44510	49101	53305
15°	43206	49196	54220
20°	42843	49157	53825
25°	43025	47945	51592
30°	42813	44728	46785
35°	40134	38184	38574
40°	35747	29605	28947
45°	32698	22082	20710
50°	30924	15462	13971
55°	28444	10452	8760
60°	24841	6118	4840
65°	23517	3924	2733
70°	21444	2802	1652
75°	17753	1994	1234
80°	13937	1132	778
85°	12404	705	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.0	5.4
10°-20°	109.1	15.5
20°-30°	161.7	22.9
30°-40°	161.9	23.0
40°-50°	113.2	16.0
50°-60°	67.3	9.5
60°-70°	35.1	5.0
70°-80°	15.6	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°	308.8	43.8
0°-40°	470.7	66.7
0°-60°	651.2	92.3
0°-90°	705.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	705.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	402	402	402	402	402	
5°	378	392	397	415	417	35
15°	340	357	387	420	426	96
25°	317	332	354	378	381	146
35°	268	271	255	259	257	166
45°	188	179	127	123	119	146
55°	133	124	49	42	41	118
65°	81	74	14	10	9	80
75°	37	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°	402.4	402.4	402.4	402.4	402.4	402.4	402.4	402.4	402.4	402.4	402.4
2.5°	389.4	394.1	389.4	391.0	397.2	391.5	394.6	394.6	393.1	396.6	399.3
5°	378.5	383.2	378.5	380.6	387.4	381.7	385.3	384.3	384.8	387.9	391.5
7.5°	367.7	371.3	367.1	369.7	376.0	371.3	374.4	374.4	374.9	379.6	382.7
10°	356.8	359.9	356.8	358.8	365.6	361.4	363.5	364.0	365.6	369.7	374.4
12.5°	346.9	349.5	346.4	349.5	355.2	351.1	353.7	354.2	355.7	360.4	365.6
15°	339.7	342.3	339.1	341.7	346.9	343.8	345.9	346.9	348.0	352.1	356.8
17.5°	334.0	336.0	333.4	336.5	340.6	337.1	340.2	340.2	341.7	345.9	351.1
20°	327.7	329.8	327.7	330.3	335.0	331.9	334.5	334.5	336.0	340.6	345.4
22.5°	322.0	323.1	322.0	324.1	328.8	326.2	327.7	328.3	329.8	334.0	338.1
25°	317.4	319.4	318.4	320.5	323.6	321.0	322.5	323.1	324.6	328.3	331.9
27.5°	312.2	313.2	312.2	314.8	317.4	315.3	316.8	316.3	317.4	320.5	323.6
30°	301.8	302.8	302.8	304.4	306.5	305.4	307.0	305.4	306.5	309.1	312.2
32.5°	286.8	287.3	287.8	289.4	290.9	289.4	290.4	290.4	290.4	292.5	294.5
35°	267.6	268.6	268.1	269.1	270.6	270.2	270.2	269.7	268.6	269.7	270.6
37.5°	245.8	244.2	244.2	245.8	246.8	244.8	245.8	244.8	244.8	245.2	245.2
40°	222.9	221.4	222.9	223.5	224.0	222.9	222.5	221.4	219.9	220.3	219.4
42.5°	203.8	202.8	203.3	203.3	203.8	202.8	203.3	201.2	199.7	198.6	197.1
45°	188.2	186.7	188.2	187.2	187.2	186.7	186.2	185.1	183.1	181.5	178.9
47.5°	173.7	173.7	174.2	174.2	174.2	173.2	173.2	171.1	169.1	166.9	163.4
50°	161.8	160.8	162.8	162.8	161.3	160.8	161.3	158.6	157.1	154.5	150.9
52.5°	148.8	148.8	149.4	149.4	148.8	147.8	148.3	146.2	144.6	142.1	138.5
55°	132.8	131.7	133.2	133.2	132.8	132.2	132.8	131.2	129.7	127.6	124.5
57.5°	114.6	114.1	115.1	115.7	114.6	114.6	115.1	113.6	113.1	110.9	107.9
60°	101.1	100.6	101.7	102.2	101.1	101.1	101.1	99.1	98.0	96.0	93.8
62.5°	91.8	91.3	92.3	91.8	91.3	90.8	91.3	89.2	88.2	86.1	84.0
65°	80.9	81.4	82.0	82.0	81.4	80.9	80.9	79.9	78.8	76.8	74.2
67.5°	70.5	70.5	71.1	71.5	71.1	71.1	71.1	69.5	68.5	66.9	63.8
70°	59.7	59.1	60.6	60.6	59.7	60.2	59.7	59.1	58.1	56.0	53.4
72.5°	48.2	48.2	48.8	48.8	48.2	48.2	48.2	47.7	46.1	45.1	42.5
75°	37.4	37.4	37.8	38.3	37.4	37.4	37.8	36.8	35.8	34.2	32.6
77.5°	28.0	27.5	28.0	28.0	27.5	27.5	27.5	26.9	26.5	24.9	23.4
80°	19.7	19.2	19.7	19.7	19.7	19.2	19.2	18.6	18.6	17.7	16.1
82.5°	13.5	12.9	13.5	13.5	13.5	12.9	12.9	12.9	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	7.2	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°	402.4	402.4	402.4	402.4	402.4	402.4	402.4	402.4	402.4	402.4	402.4
2.5°	397.2	396.2	399.3	398.3	398.8	396.2	400.3	398.3	400.8	398.3	403.4
5°	390.5	389.4	394.1	393.6	394.1	392.0	396.6	396.2	399.3	397.2	402.9
7.5°	383.2	382.2	387.4	387.9	388.9	386.8	393.1	393.1	396.2	395.7	401.9
10°	374.9	375.4	380.6	381.7	383.7	382.7	388.4	390.0	394.1	393.6	401.4
12.5°	367.1	367.1	373.9	376.0	377.5	377.0	383.7	385.9	390.5	391.5	398.8
15°	359.4	359.9	366.1	369.2	371.3	370.8	378.0	380.6	386.3	386.8	395.7
17.5°	353.1	352.6	359.4	362.0	365.1	364.5	372.3	375.4	381.1	382.7	391.0
20°	348.0	347.4	353.7	356.8	358.8	358.3	366.1	369.7	374.9	376.0	384.3
22.5°	341.7	340.6	346.9	349.5	351.6	351.1	357.8	360.4	365.6	366.6	374.4
25°	334.5	333.4	339.1	340.6	342.3	341.2	346.9	348.5	352.6	353.7	361.4
27.5°	326.2	323.6	328.3	328.3	329.3	327.7	331.9	333.4	337.1	337.1	344.3
30°	313.2	309.6	312.2	311.7	312.2	310.1	312.7	313.2	315.8	315.3	320.5
32.5°	295.1	289.9	291.4	289.9	288.3	285.2	288.3	287.3	289.4	287.3	292.0
35°	270.2	265.0	264.5	262.4	260.8	258.2	258.2	255.7	256.2	254.6	257.7
37.5°	243.2	236.5	235.4	231.3	228.6	225.6	225.6	223.5	220.9	219.9	222.5
40°	216.8	209.5	206.9	200.2	197.5	194.5	192.3	189.8	188.8	184.6	186.7
42.5°	194.0	186.2	180.5	173.2	170.6	166.0	162.8	159.7	158.2	153.5	155.6
45°	174.8	165.4	159.2	149.8	146.2	141.1	136.3	132.8	129.1	127.1	126.0
47.5°	158.6	148.8	140.5	130.2	124.5	119.8	113.6	110.0	105.3	102.6	101.1
50°	145.2	134.3	124.9	113.1	107.4	102.2	94.9	89.2	85.1	80.9	79.9
52.5°	133.2	121.9	111.5	98.0	91.3	85.1	77.2	71.1	67.4	62.8	62.2
55°	119.2	109.4	98.0	84.0	77.2	71.1	62.8	56.5	51.9	48.8	47.7
57.5°	104.2	94.9	84.0	70.0	63.2	56.5	48.8	43.1	38.9	36.3	35.8
60°	90.2	81.4	71.1	57.1	50.3	44.6	36.3	30.6	26.9	24.9	23.8
62.5°	79.9	71.5	61.7	48.8	42.5	36.8	29.1	23.8	20.8	18.6	17.7
65°	70.0	61.7	52.9	40.9	35.8	30.6	23.4	18.6	15.5	13.5	12.5
67.5°	59.7	52.3	44.1	34.2	29.1	24.9	18.6	14.5	11.9	10.3	9.4
70°	49.2	42.5	35.8	27.5	23.8	19.7	14.5	11.4	8.8	7.8	6.8
72.5°	38.9	33.7	28.0	21.2	18.2	15.5	11.4	8.3	6.8	5.7	4.6
75°	29.1	25.4	20.8	16.1	13.5	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	4.6	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	4.6	4.2	3.7	2.6	2.1	1.6	1.1	1.1
85°	5.7	4.6	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°	402.4	402.4	402.4	402.4	402.4	402.4	402.4	402.4	402.4	402.4	402.4
2.5°	407.6	404.5	402.4	404.9	406.0	404.5	406.0	408.6	411.2	411.7	404.5
5°	408.2	404.9	404.0	407.1	407.6	407.1	408.6	412.3	415.4	416.4	409.1
7.5°	408.2	406.0	405.5	409.1	409.7	409.1	411.7	415.9	419.0	421.1	413.8
10°	407.1	406.0	406.5	409.7	410.7	410.7	414.3	419.0	422.1	424.2	416.9
12.5°	405.5	405.5	405.5	409.1	410.2	410.7	413.8	420.0	422.1	425.2	418.0
15°	402.9	402.9	402.9	406.5	408.2	408.2	411.7	417.4	420.0	423.1	415.9
17.5°	398.3	398.3	398.8	401.9	403.4	403.4	407.1	413.3	414.8	418.5	411.2
20°	391.5	391.5	392.0	395.1	396.6	395.7	400.3	405.5	407.1	410.2	402.9
22.5°	381.7	381.7	381.7	384.8	385.9	385.3	390.0	394.6	394.6	398.8	391.0
25°	367.1	368.2	367.1	370.3	371.3	370.8	374.9	379.1	378.0	382.7	374.9
27.5°	349.5	348.9	348.9	351.6	351.6	351.1	354.2	358.8	357.8	360.9	353.7
30°	325.1	326.6	324.1	327.7	326.2	325.1	327.2	331.4	329.8	332.4	326.6
32.5°	297.1	295.1	295.1	295.1	296.1	293.5	295.6	297.7	296.1	298.7	292.5
35°	260.3	260.8	259.3	259.8	260.3	257.2	259.3	261.4	259.3	260.8	255.1
37.5°	223.5	224.0	220.3	222.5	220.3	219.4	221.4	222.5	220.3	222.0	215.7
40°	186.7	185.7	185.1	185.1	185.7	183.1	184.6	186.2	184.6	185.7	180.0
42.5°	154.5	154.0	153.0	153.5	152.0	151.4	152.0	153.5	152.0	153.0	148.8
45°	126.5	125.5	124.0	124.5	124.5	121.9	123.4	124.5	122.9	123.4	119.8
47.5°	100.6	99.1	99.1	98.5	98.5	97.5	99.1	98.5	96.9	98.0	94.3
50°	78.3	77.2	77.2	77.2	77.2	75.7	76.2	77.2	75.7	75.7	73.7
52.5°	61.2	59.7	58.6	58.6	58.6	58.1	58.1	58.6	57.1	57.1	56.5
55°	46.1	45.7	44.1	44.1	44.1	42.5	43.1	43.1	42.5	42.5	40.9
57.5°	34.2	32.6	31.7	31.7	30.6	30.6	30.1	30.6	29.5	29.5	28.5
60°	22.8	21.8	21.2	20.8	20.8	20.2	20.8	20.2	20.2	19.7	19.2
62.5°	16.6	15.5	14.5	14.5	14.5	14.0	14.0	14.0	14.0	14.0	13.5
65°	11.9	10.9	10.9	10.3	10.3	9.9	9.9	9.9	9.9	9.9	9.4
67.5°	8.3	7.8	7.2	7.2	7.2	7.2	7.2	7.2	6.8	6.8	6.8
70°	6.2	5.7	5.2	5.2	5.2	5.2	5.2	4.6	5.2	5.2	4.6
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



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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	402.4	402.4	402.4	402.4	402.4	402.4	402.4	402.4
2.5°	412.3	411.7	410.7	412.3	408.2	406.5	406.0	410.7
5°	418.0	416.9	416.9	418.5	413.8	412.8	411.7	416.9
7.5°	423.1	422.1	422.1	423.7	419.5	418.5	417.4	422.6
10°	426.3	426.3	426.3	427.3	423.7	422.6	422.1	427.3
12.5°	427.8	427.8	427.3	429.4	424.7	424.7	423.7	428.8
15°	425.7	425.7	425.7	427.3	423.1	422.1	422.1	426.3
17.5°	420.5	420.5	420.0	421.6	416.9	416.9	416.4	421.1
20°	412.8	412.8	411.7	413.8	409.1	407.6	407.1	411.7
22.5°	400.3	399.8	399.3	400.3	396.2	395.1	394.6	398.8
25°	384.3	383.7	382.7	383.7	379.1	377.5	377.5	380.6
27.5°	361.4	361.4	359.9	361.4	356.3	355.7	355.2	358.8
30°	333.4	331.4	330.3	332.4	327.2	327.2	326.2	329.8
32.5°	298.7	296.6	296.1	297.1	292.5	290.9	292.9	295.1
35°	258.8	259.3	257.2	257.2	253.1	253.5	254.1	257.2
37.5°	220.3	219.4	218.8	219.4	216.2	215.2	214.2	217.3
40°	184.6	182.0	181.5	181.5	178.9	178.4	178.9	180.5
42.5°	150.9	150.3	148.3	149.4	146.8	147.8	147.3	147.3
45°	121.9	122.3	120.3	121.9	119.8	118.2	118.2	119.2
47.5°	96.5	96.5	96.0	96.0	94.3	94.9	93.8	95.4
50°	74.6	74.6	73.7	74.2	73.1	73.1	72.6	73.1
52.5°	57.1	56.5	56.5	56.0	54.9	55.5	56.0	54.9
55°	41.5	42.0	40.9	41.5	40.5	40.9	40.5	40.9
57.5°	28.5	29.1	28.0	29.1	28.0	28.5	28.0	28.0
60°	19.7	19.7	19.2	19.7	19.2	19.2	18.6	19.7
62.5°	13.5	13.5	13.5	13.5	13.5	12.9	13.5	13.5
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°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
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)