

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: P859746

Luminaire Tested: **LX4C08D010 EX4C089827 4LBSWNH**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P859746
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 EX4C089827 4LBSWNH
Description:
Light Source: -
Ballast/Driver: -

Summary

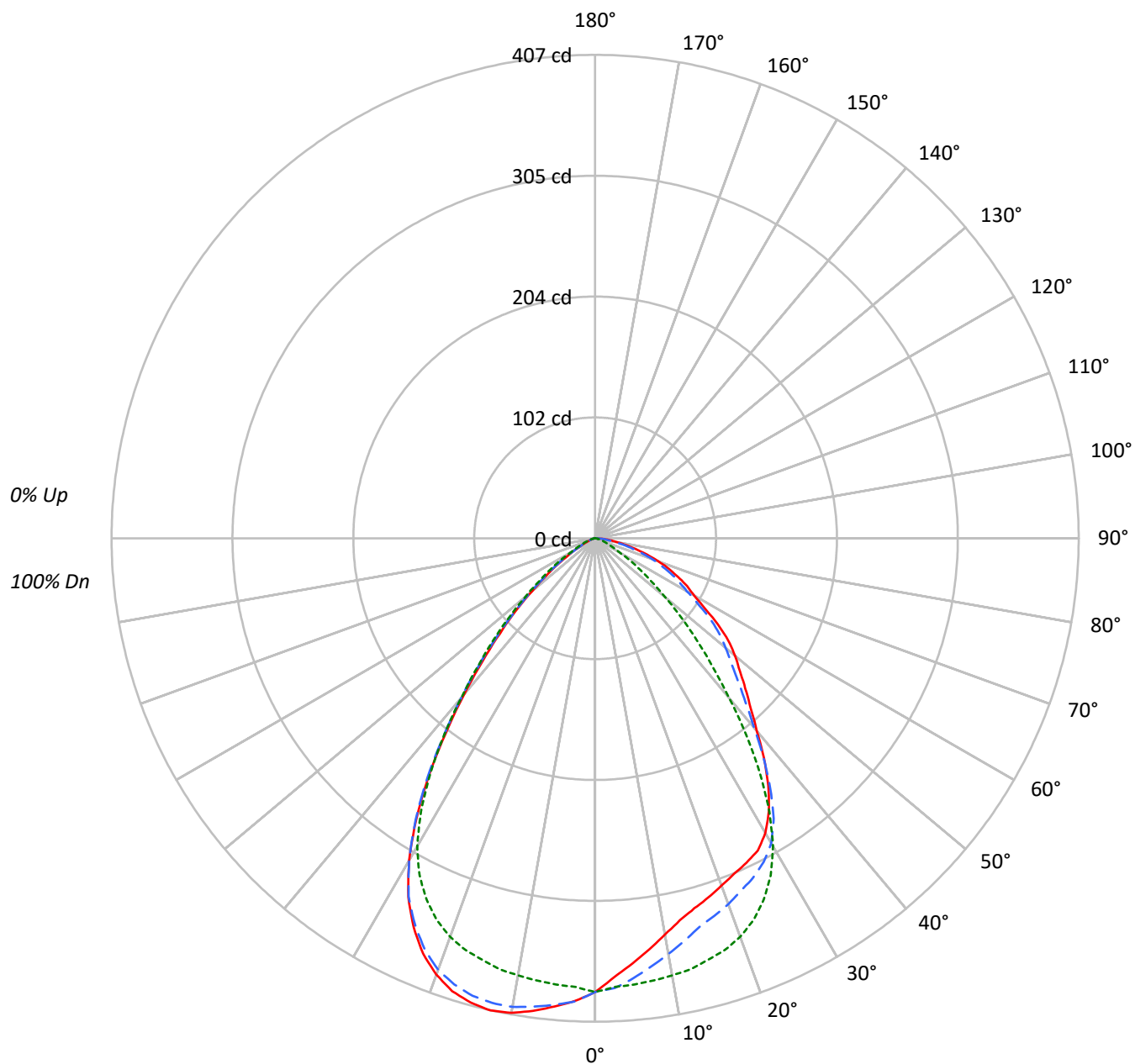
Lumens per Lamp: N/A
Luminaire Lumens: 669.7 lumens
Efficiency: N/A
Efficacy: 67.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	46930	46930	46930
5°	44322	46505	48811
10°	42252	46606	50611
15°	41018	46716	51473
20°	40673	46673	51105
25°	40842	45505	48976
30°	40643	42473	44416
35°	38109	36264	36624
40°	33951	28114	27472
45°	31048	20971	19685
50°	29357	14678	13264
55°	26988	9917	8332
60°	23588	5799	4595
65°	22325	3721	2558
70°	20331	2658	1616
75°	16851	1851	1187
80°	13230	1061	707
85°	11841	705	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.1	5.4
10°-20°	103.6	15.5
20°-30°	153.5	22.9
30°-40°	153.7	23.0
40°-50°	107.4	16.0
50°-60°	63.9	9.5
60°-70°	33.4	5.0
70°-80°	14.8	2.2
80°-90°	3.2	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°	293.2	43.8
0°-40°	446.9	66.7
0°-60°	618.3	92.3
0°-90°	669.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	669.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	382	382	382	382	382	
5°	359	372	377	394	396	34
15°	322	339	367	399	405	91
25°	301	315	336	359	361	139
35°	254	257	242	246	244	158
45°	179	170	121	117	113	139
55°	126	118	46	40	39	112
65°	77	70	13	9	9	76
75°	36	31	4	2	2	38
85°	8	6	0	0	0	9
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°	382.0	382.0	382.0	382.0	382.0	382.0	382.0	382.0	382.0	382.0	382.0
2.5°	369.7	374.2	369.7	371.2	377.1	371.7	374.6	374.6	373.2	376.7	379.1
5°	359.4	363.8	359.4	361.3	367.8	362.3	365.8	364.8	365.3	368.3	371.7
7.5°	349.0	352.5	348.6	351.1	357.0	352.5	355.4	355.4	356.0	360.4	363.4
10°	338.7	341.7	338.7	340.7	347.1	343.1	345.1	345.6	347.1	351.1	355.4
12.5°	329.4	331.8	328.9	331.8	337.3	333.3	335.7	336.3	337.7	342.2	347.1
15°	322.5	325.0	322.0	324.4	329.4	326.4	328.3	329.4	330.4	334.3	338.7
17.5°	317.1	319.1	316.6	319.5	323.4	320.0	323.0	323.0	324.4	328.3	333.3
20°	311.1	313.1	311.1	313.6	318.1	315.1	317.5	317.5	319.1	323.4	327.9
22.5°	305.8	306.8	305.8	307.7	312.1	309.7	311.1	311.7	313.1	317.1	321.0
25°	301.3	303.3	302.3	304.3	307.2	304.8	306.2	306.8	308.2	311.7	315.1
27.5°	296.4	297.4	296.4	298.8	301.3	299.4	300.8	300.3	301.3	304.3	307.2
30°	286.5	287.5	287.5	289.0	291.0	290.0	291.4	290.0	291.0	293.5	296.4
32.5°	272.2	272.8	273.2	274.7	276.2	274.7	275.7	275.7	275.7	277.7	279.7
35°	254.1	255.0	254.5	255.5	257.0	256.6	256.6	256.0	255.0	256.0	257.0
37.5°	233.4	231.9	231.9	233.4	234.3	232.4	233.4	232.4	232.4	232.8	232.8
40°	211.7	210.3	211.7	212.2	212.7	211.7	211.3	210.3	208.8	209.2	208.2
42.5°	193.5	192.5	193.0	193.0	193.5	192.5	193.0	191.0	189.6	188.5	187.1
45°	178.7	177.3	178.7	177.7	177.7	177.3	176.7	175.8	173.8	172.3	169.9
47.5°	165.0	165.0	165.4	165.4	165.4	164.4	164.4	162.5	160.5	158.6	155.1
50°	153.6	152.6	154.6	154.6	153.1	152.6	153.1	150.6	149.2	146.7	143.3
52.5°	141.3	141.3	141.8	141.8	141.3	140.3	140.8	138.8	137.3	134.9	131.4
55°	126.0	125.0	126.5	126.5	126.0	125.6	126.0	124.6	123.1	121.1	118.2
57.5°	108.8	108.3	109.3	109.8	108.8	108.8	109.3	107.8	107.4	105.3	102.4
60°	96.0	95.5	96.5	97.0	96.0	96.0	96.0	94.0	93.0	91.0	89.1
62.5°	87.1	86.7	87.7	87.1	86.7	86.1	86.7	84.7	83.7	81.8	79.7
65°	76.8	77.3	77.8	77.8	77.3	76.8	76.8	75.8	74.8	72.9	70.4
67.5°	67.0	67.0	67.4	68.0	67.4	67.4	67.4	66.0	65.0	63.5	60.5
70°	56.6	56.1	57.6	57.6	56.6	57.1	56.6	56.1	55.1	53.1	50.7
72.5°	45.7	45.7	46.3	46.3	45.7	45.7	45.7	45.3	43.8	42.8	40.4
75°	35.5	35.5	35.9	36.5	35.5	35.5	35.9	35.0	34.0	32.5	31.0
77.5°	26.6	26.1	26.6	26.6	26.1	26.1	26.1	25.6	25.1	23.6	22.1
80°	18.7	18.2	18.7	18.7	18.7	18.2	18.2	17.7	17.7	16.8	15.2
82.5°	12.8	12.3	12.8	12.8	12.8	12.3	12.3	12.3	11.8	11.3	10.3
85°	8.4	7.8	7.8	8.4	7.8	7.8	7.8	7.8	7.4	6.9	6.4
87.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.5	3.5	3.5	2.9
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°	382.0	382.0	382.0	382.0	382.0	382.0	382.0	382.0	382.0	382.0	382.0
2.5°	377.1	376.1	379.1	378.1	378.6	376.1	380.1	378.1	380.6	378.1	383.0
5°	370.7	369.7	374.2	373.6	374.2	372.2	376.7	376.1	379.1	377.1	382.6
7.5°	363.8	362.8	367.8	368.3	369.3	367.3	373.2	373.2	376.1	375.6	381.6
10°	356.0	356.4	361.3	362.3	364.4	363.4	368.7	370.3	374.2	373.6	381.0
12.5°	348.6	348.6	355.0	357.0	358.4	357.9	364.4	366.3	370.7	371.7	378.6
15°	341.2	341.7	347.6	350.5	352.5	352.1	358.9	361.3	366.8	367.3	375.6
17.5°	335.3	334.8	341.2	343.7	346.6	346.1	353.5	356.4	361.9	363.4	371.2
20°	330.4	329.9	335.7	338.7	340.7	340.2	347.6	351.1	356.0	357.0	364.8
22.5°	324.4	323.4	329.4	331.8	333.8	333.3	339.8	342.2	347.1	348.0	355.4
25°	317.5	316.6	322.0	323.4	325.0	324.0	329.4	330.8	334.8	335.7	343.1
27.5°	309.7	307.2	311.7	311.7	312.6	311.1	315.1	316.6	320.0	320.0	326.9
30°	297.4	293.9	296.4	295.9	296.4	294.5	296.9	297.4	299.8	299.4	304.3
32.5°	280.1	275.2	276.7	275.2	273.8	270.8	273.8	272.8	274.7	272.8	277.2
35°	256.6	251.6	251.1	249.2	247.6	245.1	245.1	242.7	243.2	241.8	244.7
37.5°	230.9	224.5	223.6	219.5	217.1	214.2	214.2	212.2	209.7	208.8	211.3
40°	205.8	198.9	196.5	190.0	187.5	184.6	182.6	180.2	179.2	175.3	177.3
42.5°	184.1	176.7	171.3	164.4	161.9	157.6	154.6	151.6	150.2	145.7	147.7
45°	166.0	157.0	151.2	142.2	138.8	133.9	129.5	126.0	122.6	120.7	119.7
47.5°	150.6	141.3	133.4	123.6	118.2	113.7	107.8	104.3	100.0	97.5	96.0
50°	137.9	127.5	118.7	107.4	101.9	97.0	90.1	84.7	80.8	76.8	75.8
52.5°	126.5	115.7	105.8	93.0	86.7	80.8	73.4	67.4	64.0	59.6	59.0
55°	113.3	103.9	93.0	79.7	73.4	67.4	59.6	53.7	49.2	46.3	45.3
57.5°	99.0	90.1	79.7	66.4	60.1	53.7	46.3	40.8	36.9	34.5	34.0
60°	85.7	77.3	67.4	54.1	47.7	42.4	34.5	29.1	25.6	23.6	22.7
62.5°	75.8	68.0	58.6	46.3	40.4	35.0	27.6	22.7	19.7	17.7	16.8
65°	66.4	58.6	50.2	38.9	34.0	29.1	22.1	17.7	14.8	12.8	11.8
67.5°	56.6	49.8	41.8	32.5	27.6	23.6	17.7	13.8	11.3	9.8	8.8
70°	46.7	40.4	34.0	26.1	22.7	18.7	13.8	10.8	8.4	7.4	6.4
72.5°	36.9	32.0	26.6	20.2	17.2	14.8	10.8	7.8	6.4	5.4	4.5
75°	27.6	24.2	19.7	15.2	12.8	10.8	7.8	5.9	4.9	3.9	3.5
77.5°	19.7	16.8	13.8	10.3	9.4	7.8	5.4	4.5	3.5	2.5	2.0
80°	13.3	11.8	9.4	7.4	5.9	5.4	3.9	2.9	2.0	1.5	1.5
82.5°	8.8	7.4	5.9	4.5	3.9	3.5	2.5	2.0	1.5	1.0	1.0
85°	5.4	4.5	3.5	2.5	2.5	2.0	1.5	1.0	0.5	0.5	0.5
87.5°	2.5	2.0	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	382.0	382.0	382.0	382.0	382.0	382.0	382.0	382.0	382.0	382.0	382.0
2.5°	387.0	384.0	382.0	384.5	385.5	384.0	385.5	388.0	390.4	390.9	384.0
5°	387.5	384.5	383.5	386.5	387.0	386.5	388.0	391.4	394.3	395.3	388.4
7.5°	387.5	385.5	385.0	388.4	389.0	388.4	390.9	394.9	397.8	399.8	392.9
10°	386.5	385.5	385.9	389.0	390.0	390.0	393.3	397.8	400.7	402.7	395.8
12.5°	385.0	385.0	385.0	388.4	389.4	390.0	392.9	398.8	400.7	403.7	396.8
15°	382.6	382.6	382.6	385.9	387.5	387.5	390.9	396.3	398.8	401.7	394.9
17.5°	378.1	378.1	378.6	381.6	383.0	383.0	386.5	392.4	393.9	397.4	390.4
20°	371.7	371.7	372.2	375.2	376.7	375.6	380.1	385.0	386.5	389.4	382.6
22.5°	362.3	362.3	362.3	365.3	366.3	365.8	370.3	374.6	374.6	378.6	371.2
25°	348.6	349.6	348.6	351.5	352.5	352.1	356.0	359.9	358.9	363.4	356.0
27.5°	331.8	331.4	331.4	333.8	333.8	333.3	336.3	340.7	339.8	342.7	335.7
30°	308.7	310.1	307.7	311.1	309.7	308.7	310.7	314.6	313.1	315.6	310.1
32.5°	282.1	280.1	280.1	280.1	281.1	278.7	280.6	282.6	281.1	283.6	277.7
35°	247.2	247.6	246.1	246.7	247.2	244.2	246.1	248.2	246.1	247.6	242.2
37.5°	212.2	212.7	209.2	211.3	209.2	208.2	210.3	211.3	209.2	210.7	204.8
40°	177.3	176.3	175.8	175.8	176.3	173.8	175.3	176.7	175.3	176.3	170.9
42.5°	146.7	146.2	145.3	145.7	144.3	143.7	144.3	145.7	144.3	145.3	141.3
45°	120.1	119.1	117.7	118.2	118.2	115.7	117.2	118.2	116.7	117.2	113.7
47.5°	95.5	94.0	94.0	93.5	93.5	92.6	94.0	93.5	92.0	93.0	89.6
50°	74.4	73.4	73.4	73.4	73.4	71.9	72.4	73.4	71.9	71.9	69.9
52.5°	58.1	56.6	55.6	55.6	55.6	55.1	55.1	55.6	54.1	54.1	53.7
55°	43.8	43.3	41.8	41.8	41.8	40.4	40.8	40.8	40.4	40.4	38.9
57.5°	32.5	31.0	30.1	30.1	29.1	29.1	28.5	29.1	28.1	28.1	27.1
60°	21.7	20.7	20.2	19.7	19.7	19.2	19.7	19.2	19.2	18.7	18.2
62.5°	15.8	14.8	13.8	13.8	13.8	13.3	13.3	13.3	13.3	13.3	12.8
65°	11.3	10.3	10.3	9.8	9.8	9.4	9.4	9.4	9.4	9.4	8.8
67.5°	7.8	7.4	6.9	6.9	6.9	6.9	6.9	6.9	6.4	6.4	6.4
70°	5.9	5.4	4.9	4.9	4.9	4.9	4.9	4.5	4.9	4.9	4.5
72.5°	3.9	3.9	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
75°	2.9	2.9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
77.5°	2.0	2.0	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: P859746

CATALOG NUMBER: LX4C08D010 EX4C089827 4LBSWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	382.0	382.0	382.0	382.0	382.0	382.0	382.0	382.0
2.5°	391.4	390.9	390.0	391.4	387.5	385.9	385.5	390.0
5°	396.8	395.8	395.8	397.4	392.9	391.9	390.9	395.8
7.5°	401.7	400.7	400.7	402.3	398.3	397.4	396.3	401.3
10°	404.7	404.7	404.7	405.7	402.3	401.3	400.7	405.7
12.5°	406.2	406.2	405.7	407.6	403.2	403.2	402.3	407.2
15°	404.2	404.2	404.2	405.7	401.7	400.7	400.7	404.7
17.5°	399.3	399.3	398.8	400.3	395.8	395.8	395.3	399.8
20°	391.9	391.9	390.9	392.9	388.4	387.0	386.5	390.9
22.5°	380.1	379.6	379.1	380.1	376.1	375.2	374.6	378.6
25°	364.8	364.4	363.4	364.4	359.9	358.4	358.4	361.3
27.5°	343.1	343.1	341.7	343.1	338.2	337.7	337.3	340.7
30°	316.6	314.6	313.6	315.6	310.7	310.7	309.7	313.1
32.5°	283.6	281.6	281.1	282.1	277.7	276.2	278.1	280.1
35°	245.7	246.1	244.2	244.2	240.2	240.8	241.2	244.2
37.5°	209.2	208.2	207.8	208.2	205.3	204.3	203.3	206.3
40°	175.3	172.8	172.3	172.3	169.9	169.3	169.9	171.3
42.5°	143.3	142.8	140.8	141.8	139.3	140.3	139.8	139.8
45°	115.7	116.2	114.2	115.7	113.7	112.3	112.3	113.3
47.5°	91.6	91.6	91.0	91.0	89.6	90.1	89.1	90.6
50°	70.9	70.9	69.9	70.4	69.4	69.4	68.9	69.4
52.5°	54.1	53.7	53.7	53.1	52.2	52.7	53.1	52.2
55°	39.4	39.9	38.9	39.4	38.4	38.9	38.4	38.9
57.5°	27.1	27.6	26.6	27.6	26.6	27.1	26.6	26.6
60°	18.7	18.7	18.2	18.7	18.2	18.2	17.7	18.7
62.5°	12.8	12.8	12.8	12.8	12.8	12.3	12.8	12.8
65°	9.4	8.8	8.8	8.8	8.8	8.8	8.8	8.8
67.5°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
70°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
72.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
75°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
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)