

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: P858892

Luminaire Tested: **LX4C05D010 EX4C059835 4LBSWNH**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P858892
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: LX4C05D010 EX4C059835 4LBSWNH
Description:
Light Source: -
Ballast/Driver: -

Summary

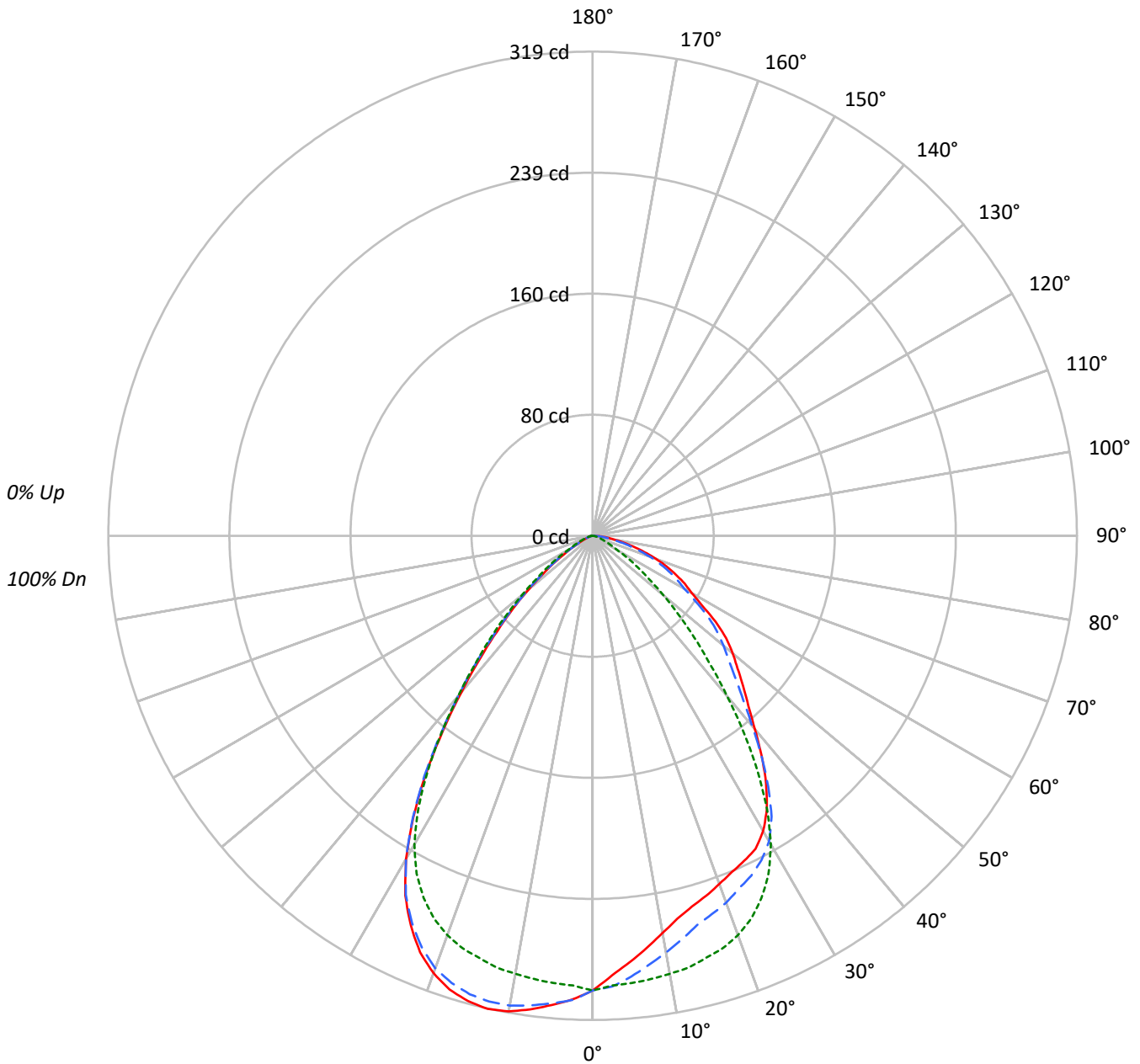
Lumens per Lamp: N/A
Luminaire Lumens: 525.2 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
Input Voltage (V):
Input Current (A_{in}): 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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100				
1	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89				89				
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79				79				
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70				70				
4	90	80	72	67	88	78	72	66	76	70	66	74	69	65	72	68	64	62				62				
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56				56				
6	78	67	59	53	76	66	59	53	64	58	53	62	57	52	61	56	52	50				50				
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	56	51	47	46				46				
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42				42				
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38				38				
10	61	49	42	37	59	48	42	37	47	41	37	47	41	37	46	40	37	35				35				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	36807	36807	36807
5°	34765	36479	38279
10°	33133	36551	39695
15°	32166	36630	40369
20°	31913	36594	40084
25°	32031	35691	38416
30°	31876	33308	34841
35°	29875	28436	28720
40°	26622	22051	21554
45°	24358	16436	15428
50°	23031	11525	10416
55°	21183	7775	6533
60°	18502	4546	3587
65°	17529	2936	2035
70°	15948	2083	1257
75°	13196	1471	949
80°	10329	849	566
85°	9303	564	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.3	5.4
10°-20°	81.2	15.5
20°-30°	120.4	22.9
30°-40°	120.6	23.0
40°-50°	84.3	16.0
50°-60°	50.1	9.5
60°-70°	26.2	5.0
70°-80°	11.6	2.2
80°-90°	2.5	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°	229.9	43.8
0°-40°	350.5	66.7
0°-60°	484.9	92.3
0°-90°	525.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	525.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	300	300	300	300	300	
5°	282	292	296	309	310	26
15°	253	266	288	313	317	72
25°	236	247	263	282	283	109
35°	199	202	190	193	192	124
45°	140	133	95	92	89	109
55°	99	93	36	32	30	88
65°	60	55	10	7	7	60
75°	28	24	3	2	2	30
85°	7	5	0	0	0	7
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°	299.6	299.6	299.6	299.6	299.6	299.6	299.6	299.6	299.6	299.6	299.6
2.5°	290.0	293.5	290.0	291.2	295.8	291.5	293.8	293.8	292.7	295.3	297.3
5°	281.9	285.4	281.9	283.4	288.5	284.2	286.9	286.2	286.5	288.8	291.5
7.5°	273.8	276.4	273.4	275.3	279.9	276.4	278.8	278.8	279.2	282.7	285.0
10°	265.6	268.0	265.6	267.2	272.2	269.1	270.6	271.1	272.2	275.3	278.8
12.5°	258.3	260.2	258.0	260.2	264.5	261.4	263.3	263.7	264.8	268.3	272.2
15°	252.9	254.9	252.5	254.4	258.3	256.0	257.5	258.3	259.1	262.2	265.6
17.5°	248.7	250.2	248.3	250.6	253.7	251.0	253.3	253.3	254.4	257.5	261.4
20°	244.1	245.6	244.1	245.9	249.4	247.1	249.1	249.1	250.2	253.7	257.2
22.5°	239.8	240.6	239.8	241.3	244.8	242.9	244.1	244.4	245.6	248.7	251.7
25°	236.3	237.8	237.1	238.6	240.9	239.0	240.1	240.6	241.8	244.4	247.1
27.5°	232.5	233.2	232.5	234.3	236.3	234.8	236.0	235.5	236.3	238.6	240.9
30°	224.7	225.5	225.5	226.7	228.2	227.5	228.6	227.5	228.2	230.2	232.5
32.5°	213.6	213.9	214.3	215.4	216.6	215.4	216.2	216.2	216.2	217.8	219.4
35°	199.2	200.0	199.7	200.4	201.5	201.2	201.2	200.8	200.0	200.8	201.5
37.5°	183.0	181.8	181.8	183.0	183.8	182.3	183.0	182.3	182.3	182.6	182.6
40°	166.0	164.9	166.0	166.4	166.8	166.0	165.7	164.9	163.7	164.1	163.4
42.5°	151.8	151.0	151.3	151.3	151.8	151.0	151.3	149.8	148.7	147.9	146.7
45°	140.2	139.0	140.2	139.4	139.4	139.0	138.6	137.9	136.3	135.2	133.2
47.5°	129.4	129.4	129.7	129.7	129.7	128.9	128.9	127.4	125.9	124.3	121.6
50°	120.5	119.7	121.3	121.3	120.1	119.7	120.1	118.2	117.0	115.0	112.4
52.5°	110.8	110.8	111.2	111.2	110.8	110.0	110.4	108.9	107.7	105.8	103.1
55°	98.9	98.1	99.3	99.3	98.9	98.4	98.9	97.6	96.6	95.0	92.7
57.5°	85.3	85.0	85.7	86.1	85.3	85.3	85.7	84.5	84.2	82.7	80.3
60°	75.3	74.9	75.7	76.1	75.3	75.3	75.3	73.7	72.9	71.4	69.9
62.5°	68.3	68.0	68.8	68.3	68.0	67.6	68.0	66.4	65.6	64.1	62.6
65°	60.3	60.6	61.0	61.0	60.6	60.3	60.3	59.5	58.7	57.2	55.2
67.5°	52.5	52.5	52.9	53.2	52.9	52.9	52.9	51.7	51.0	49.8	47.5
70°	44.4	44.1	45.2	45.2	44.4	44.8	44.4	44.1	43.2	41.7	39.8
72.5°	35.9	35.9	36.3	36.3	35.9	35.9	35.9	35.5	34.3	33.6	31.7
75°	27.8	27.8	28.2	28.5	27.8	27.8	28.2	27.4	26.7	25.5	24.3
77.5°	20.9	20.4	20.9	20.9	20.4	20.4	20.4	20.1	19.7	18.5	17.4
80°	14.6	14.3	14.6	14.6	14.6	14.3	14.3	13.9	13.9	13.1	11.9
82.5°	10.1	9.6	10.1	10.1	10.1	9.6	9.6	9.6	9.3	8.9	8.1
85°	6.6	6.2	6.2	6.6	6.2	6.2	6.2	6.2	5.8	5.4	5.0
87.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	2.7	2.7	2.7	2.3
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°	299.6	299.6	299.6	299.6	299.6	299.6	299.6	299.6	299.6	299.6	299.6
2.5°	295.8	295.0	297.3	296.6	297.0	295.0	298.1	296.6	298.5	296.6	300.4
5°	290.8	290.0	293.5	293.0	293.5	292.0	295.3	295.0	297.3	295.8	300.0
7.5°	285.4	284.6	288.5	288.8	289.6	288.0	292.7	292.7	295.0	294.6	299.3
10°	279.2	279.6	283.4	284.2	285.7	285.0	289.2	290.4	293.5	293.0	298.9
12.5°	273.4	273.4	278.4	279.9	281.1	280.7	285.7	287.3	290.8	291.5	297.0
15°	267.6	268.0	272.6	274.9	276.4	276.1	281.5	283.4	287.7	288.0	294.6
17.5°	263.0	262.5	267.6	269.5	271.8	271.4	277.2	279.6	283.8	285.0	291.2
20°	259.1	258.7	263.3	265.6	267.2	266.8	272.6	275.3	279.2	279.9	286.2
22.5°	254.4	253.7	258.3	260.2	261.8	261.4	266.5	268.3	272.2	273.0	278.8
25°	249.1	248.3	252.5	253.7	254.9	254.1	258.3	259.5	262.5	263.3	269.1
27.5°	242.9	240.9	244.4	244.4	245.2	244.1	247.1	248.3	251.0	251.0	256.4
30°	233.2	230.5	232.5	232.0	232.5	230.9	232.8	233.2	235.2	234.8	238.6
32.5°	219.7	215.8	217.0	215.8	214.7	212.4	214.7	213.9	215.4	213.9	217.4
35°	201.2	197.3	196.9	195.4	194.2	192.3	192.3	190.4	190.7	189.6	191.9
37.5°	181.1	176.1	175.3	172.2	170.3	168.0	168.0	166.4	164.5	163.7	165.7
40°	161.4	156.0	154.1	149.0	147.1	144.8	143.2	141.3	140.5	137.5	139.0
42.5°	144.4	138.6	134.4	128.9	127.1	123.6	121.3	119.0	117.8	114.3	115.8
45°	130.1	123.1	118.5	111.6	108.9	105.0	101.6	98.9	96.1	94.6	93.8
47.5°	118.2	110.8	104.6	96.9	92.7	89.2	84.5	81.9	78.4	76.4	75.3
50°	108.1	100.0	93.1	84.2	79.9	76.1	70.6	66.4	63.3	60.3	59.5
52.5°	99.3	90.8	83.0	72.9	68.0	63.3	57.5	52.9	50.2	46.7	46.4
55°	88.8	81.5	72.9	62.6	57.5	52.9	46.7	42.1	38.6	36.3	35.5
57.5°	77.6	70.6	62.6	52.2	47.1	42.1	36.3	32.0	29.0	27.0	26.7
60°	67.1	60.6	52.9	42.4	37.5	33.2	27.0	22.7	20.1	18.5	17.7
62.5°	59.5	53.2	45.9	36.3	31.7	27.4	21.7	17.7	15.4	13.9	13.1
65°	52.2	45.9	39.4	30.5	26.7	22.7	17.4	13.9	11.6	10.1	9.3
67.5°	44.4	39.0	32.8	25.5	21.7	18.5	13.9	10.8	8.9	7.8	7.0
70°	36.7	31.7	26.7	20.4	17.7	14.6	10.8	8.5	6.6	5.8	5.0
72.5°	29.0	25.1	20.9	15.9	13.6	11.6	8.5	6.2	5.0	4.3	3.5
75°	21.7	18.9	15.4	11.9	10.1	8.5	6.2	4.6	3.8	3.1	2.7
77.5°	15.4	13.1	10.8	8.1	7.3	6.2	4.3	3.5	2.7	2.0	1.5
80°	10.4	9.3	7.3	5.8	4.6	4.3	3.1	2.3	1.5	1.2	1.2
82.5°	7.0	5.8	4.6	3.5	3.1	2.7	2.0	1.5	1.2	0.8	0.8
85°	4.3	3.5	2.7	2.0	2.0	1.5	1.2	0.8	0.4	0.4	0.4
87.5°	2.0	1.5	1.2	0.8	0.8	0.4	0.4	0.4	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°	299.6	299.6	299.6	299.6	299.6	299.6	299.6	299.6	299.6	299.6	299.6
2.5°	303.5	301.1	299.6	301.6	302.3	301.1	302.3	304.3	306.2	306.6	301.1
5°	303.9	301.6	300.8	303.1	303.5	303.1	304.3	306.9	309.3	310.1	304.7
7.5°	303.9	302.3	301.9	304.7	305.1	304.7	306.6	309.7	312.0	313.5	308.1
10°	303.1	302.3	302.7	305.1	305.8	305.8	308.5	312.0	314.3	315.9	310.4
12.5°	301.9	301.9	301.9	304.7	305.4	305.8	308.1	312.7	314.3	316.7	311.2
15°	300.0	300.0	300.0	302.7	303.9	303.9	306.6	310.9	312.7	315.1	309.7
17.5°	296.6	296.6	297.0	299.3	300.4	300.4	303.1	307.7	308.9	311.6	306.2
20°	291.5	291.5	292.0	294.3	295.3	294.6	298.1	301.9	303.1	305.4	300.0
22.5°	284.2	284.2	284.2	286.5	287.3	286.9	290.4	293.8	293.8	297.0	291.2
25°	273.4	274.1	273.4	275.7	276.4	276.1	279.2	282.2	281.5	285.0	279.2
27.5°	260.2	259.9	259.9	261.8	261.8	261.4	263.7	267.2	266.5	268.8	263.3
30°	242.1	243.3	241.3	244.1	242.9	242.1	243.6	246.7	245.6	247.5	243.3
32.5°	221.2	219.7	219.7	219.7	220.4	218.6	220.1	221.6	220.4	222.4	217.8
35°	193.9	194.2	193.1	193.4	193.9	191.5	193.1	194.6	193.1	194.2	189.9
37.5°	166.4	166.8	164.1	165.7	164.1	163.4	164.9	165.7	164.1	165.2	160.6
40°	139.0	138.2	137.9	137.9	138.2	136.3	137.5	138.6	137.5	138.2	134.0
42.5°	115.0	114.7	113.9	114.3	113.2	112.7	113.2	114.3	113.2	113.9	110.8
45°	94.2	93.5	92.3	92.7	92.7	90.8	91.8	92.7	91.5	91.8	89.2
47.5°	74.9	73.7	73.7	73.4	73.4	72.6	73.7	73.4	72.2	72.9	70.3
50°	58.3	57.5	57.5	57.5	57.5	56.4	56.8	57.5	56.4	56.4	54.8
52.5°	45.6	44.4	43.6	43.6	43.6	43.2	43.2	43.6	42.4	42.4	42.1
55°	34.3	34.0	32.8	32.8	32.8	31.7	32.0	32.0	31.7	31.7	30.5
57.5°	25.5	24.3	23.5	23.5	22.7	22.7	22.4	22.7	22.0	22.0	21.2
60°	16.9	16.2	15.9	15.4	15.4	15.1	15.4	15.1	15.1	14.6	14.3
62.5°	12.4	11.6	10.8	10.8	10.8	10.4	10.4	10.4	10.4	10.4	10.1
65°	8.9	8.1	8.1	7.8	7.8	7.3	7.3	7.3	7.3	7.3	7.0
67.5°	6.2	5.8	5.4	5.4	5.4	5.4	5.4	5.4	5.0	5.0	5.0
70°	4.6	4.3	3.8	3.8	3.8	3.8	3.8	3.5	3.8	3.8	3.5
72.5°	3.1	3.1	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
75°	2.3	2.3	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
77.5°	1.5	1.5	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
80°	1.2	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
82.5°	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	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: P858892

CATALOG NUMBER: LX4C05D010 EX4C059835 4LBSWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	299.6	299.6	299.6	299.6	299.6	299.6	299.6	299.6
2.5°	306.9	306.6	305.8	306.9	303.9	302.7	302.3	305.8
5°	311.2	310.4	310.4	311.6	308.1	307.4	306.6	310.4
7.5°	315.1	314.3	314.3	315.5	312.4	311.6	310.9	314.7
10°	317.4	317.4	317.4	318.2	315.5	314.7	314.3	318.2
12.5°	318.5	318.5	318.2	319.7	316.2	316.2	315.5	319.3
15°	317.0	317.0	317.0	318.2	315.1	314.3	314.3	317.4
17.5°	313.2	313.2	312.7	313.9	310.4	310.4	310.1	313.5
20°	307.4	307.4	306.6	308.1	304.7	303.5	303.1	306.6
22.5°	298.1	297.7	297.3	298.1	295.0	294.3	293.8	297.0
25°	286.2	285.7	285.0	285.7	282.2	281.1	281.1	283.4
27.5°	269.1	269.1	268.0	269.1	265.3	264.8	264.5	267.2
30°	248.3	246.7	245.9	247.5	243.6	243.6	242.9	245.6
32.5°	222.4	220.9	220.4	221.2	217.8	216.6	218.1	219.7
35°	192.7	193.1	191.5	191.5	188.4	188.8	189.2	191.5
37.5°	164.1	163.4	162.9	163.4	161.0	160.2	159.4	161.8
40°	137.5	135.5	135.2	135.2	133.2	132.9	133.2	134.4
42.5°	112.4	112.0	110.4	111.2	109.2	110.0	109.7	109.7
45°	90.8	91.1	89.6	90.8	89.2	88.0	88.0	88.8
47.5°	71.8	71.8	71.4	71.4	70.3	70.6	69.9	71.1
50°	55.6	55.6	54.8	55.2	54.5	54.5	54.0	54.5
52.5°	42.4	42.1	42.1	41.7	40.9	41.3	41.7	40.9
55°	30.9	31.3	30.5	30.9	30.1	30.5	30.1	30.5
57.5°	21.2	21.7	20.9	21.7	20.9	21.2	20.9	20.9
60°	14.6	14.6	14.3	14.6	14.3	14.3	13.9	14.6
62.5°	10.1	10.1	10.1	10.1	10.1	9.6	10.1	10.1
65°	7.3	7.0	7.0	7.0	7.0	7.0	7.0	7.0
67.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
70°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
72.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
75°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
77.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
85°	0.4	0.4	0.4	0.0	0.4	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)