

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: P857266

Luminaire Tested: **LX4C20D010 EX4C209840 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P857266
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-2)
Test Lab: INNOVATION CENTER
Issue Date: 2/14/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C20D010 EX4C209840 4LBLWWH
Description:
Light Source: -
Ballast/Driver: -

Summary

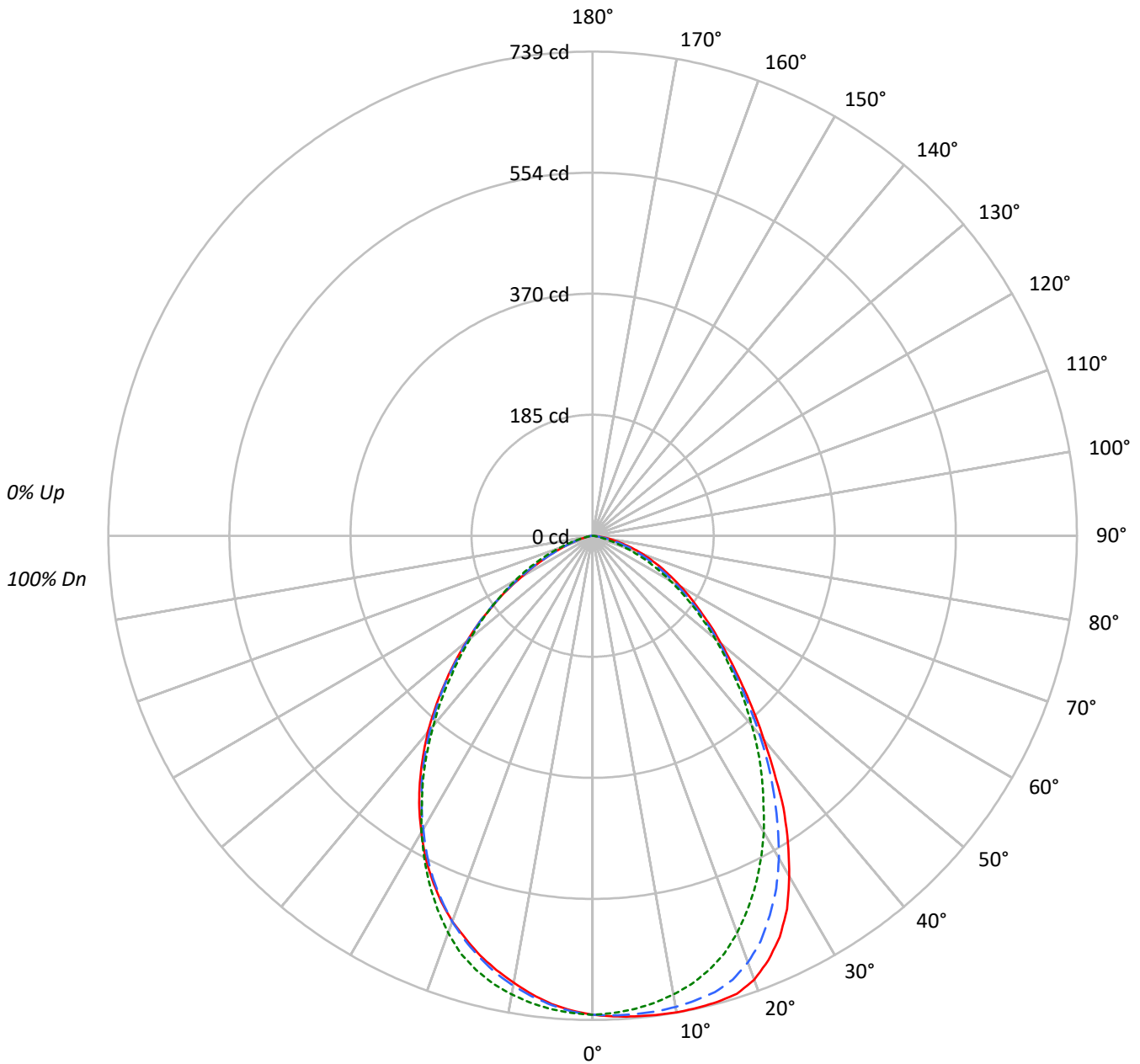
Lumens per Lamp: N/A
Luminaire Lumens: 1377.7 lumens
Efficiency: N/A
Efficacy: 63.2 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
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									
RC	80									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																			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88																			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77																			
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68																			
4	88	78	70	64	86	77	69	64	74	68	63	72	67	62	70	65	62	60																			
5	82	71	63	57	80	69	62	57	67	61	56	66	60	55	64	59	55	53																			
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47																			
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	44	43																			
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39																			
9	62	50	43	38	61	50	42	37	48	42	37	47	41	37	47	41	37	35																			
10	59	47	39	34	58	46	39	34	45	39	34	44	38	34	43	38	34	32																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	89806	89806	89806
5°	90815	89434	88459
10°	92139	88671	86426
15°	93661	87263	84363
20°	94262	84287	81868
25°	91553	79733	78513
30°	85087	74121	74150
35°	76158	67549	68989
40°	65192	60573	62770
45°	56136	53391	55406
50°	48794	46482	47877
55°	42945	39989	39625
60°	38207	33367	30738
65°	33517	26715	22238
70°	28808	18894	15050
75°	23354	10965	8781
80°	16697	4811	4386
85°	6343	1973	1973



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.9	5.0
10°-20°	195.0	14.2
20°-30°	278.5	20.2
30°-40°	291.3	21.1
40°-50°	244.1	17.7
50°-60°	170.8	12.4
60°-70°	93.0	6.8
70°-80°	32.3	2.3
80°-90°	3.7	0.3
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°	542.4	39.4
0°-40°	833.8	60.5
0°-60°	1248.7	90.6
0°-90°	1377.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1377.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	731	731	731	731	731	
5°	736	733	725	719	717	70
15°	736	721	686	666	663	208
25°	675	639	588	577	579	308
35°	508	483	450	454	460	315
45°	323	316	307	318	319	251
55°	200	194	187	187	185	181
65°	115	105	92	77	76	115
75°	49	40	23	18	18	53
85°	4	2	1	1	1	8
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°	731.0	731.0	731.0	731.0	731.0	731.0	731.0	731.0	731.0	731.0	731.0
2.5°	734.4	733.6	733.9	733.9	733.9	733.6	733.9	733.6	733.6	733.3	732.7
5°	736.4	735.9	735.9	735.9	735.6	735.2	735.2	735.0	734.4	734.2	733.0
7.5°	737.8	737.3	737.3	736.9	736.7	736.4	736.1	735.2	734.4	733.9	732.5
10°	738.6	737.8	737.8	737.3	736.7	736.4	735.9	734.7	733.6	732.2	730.2
12.5°	738.1	737.3	736.9	736.4	735.2	734.7	734.2	732.7	730.8	728.8	726.3
15°	736.4	735.9	735.2	734.4	733.0	732.2	731.6	729.4	726.9	724.0	721.0
17.5°	733.0	732.2	731.0	730.0	727.9	727.1	725.7	722.9	719.3	715.4	710.5
20°	721.0	720.3	719.3	717.3	714.2	713.0	711.1	707.4	702.7	697.9	692.8
22.5°	701.0	700.1	698.4	696.7	694.0	692.0	690.3	685.2	679.9	674.9	670.1
25°	675.4	674.5	672.3	670.1	667.2	663.9	662.2	658.2	652.9	646.4	639.4
27.5°	642.5	639.6	638.8	636.3	632.1	631.0	628.4	623.3	618.3	612.7	606.7
30°	599.8	599.8	598.1	596.9	593.0	591.8	589.1	583.7	580.9	573.0	568.6
32.5°	554.5	554.0	552.5	551.6	549.4	547.4	544.7	541.8	535.7	531.7	525.5
35°	507.8	504.5	505.0	503.3	501.9	499.6	499.4	496.3	490.6	488.4	482.8
37.5°	454.7	453.3	455.2	452.7	451.3	451.6	449.3	447.4	445.1	441.1	440.1
40°	406.5	407.7	407.4	405.2	406.3	404.9	402.6	400.7	399.6	397.0	396.2
42.5°	363.6	361.9	361.3	361.3	361.6	361.6	360.4	359.1	359.1	356.5	354.0
45°	323.1	323.1	322.5	324.2	321.7	321.7	320.8	320.6	319.4	318.9	315.8
47.5°	288.2	287.9	287.7	287.4	287.1	287.1	285.4	284.0	283.8	282.1	280.4
50°	255.3	257.0	256.5	255.0	254.5	254.8	253.6	252.8	252.5	249.7	250.0
52.5°	227.8	227.5	228.0	227.2	225.8	226.1	225.0	223.8	222.7	221.3	220.2
55°	200.5	201.9	201.4	200.5	200.2	199.7	198.8	197.3	197.1	194.0	193.8
57.5°	177.7	177.5	176.8	175.5	175.1	174.3	174.3	173.2	171.5	169.8	168.5
60°	155.5	155.5	154.6	154.4	153.2	152.9	152.7	151.6	149.5	148.2	145.9
62.5°	134.1	134.7	134.1	133.3	132.4	131.4	130.7	129.9	128.2	126.8	124.8
65°	115.3	115.0	114.7	113.6	113.3	112.2	111.9	110.2	108.5	107.4	105.1
67.5°	97.3	96.5	96.5	95.9	95.3	94.4	93.9	92.2	90.2	89.2	86.9
70°	80.2	79.5	79.5	79.5	78.2	77.3	77.0	76.2	73.4	72.2	70.0
72.5°	64.4	64.1	63.8	63.0	62.2	62.2	61.0	59.3	58.0	56.5	54.8
75°	49.2	49.8	49.2	48.1	47.8	47.3	46.4	45.0	43.6	41.9	40.0
77.5°	36.0	35.4	34.9	34.9	34.3	33.2	32.9	31.7	30.1	29.0	27.0
80°	23.6	23.4	22.7	22.2	21.9	21.7	21.4	20.2	18.5	17.7	16.1
82.5°	12.9	12.7	12.7	12.4	11.5	11.5	11.2	10.2	9.3	8.7	7.8
85°	4.5	4.5	4.5	4.2	4.2	4.2	3.9	3.7	3.4	3.1	2.5
87.5°	0.5	0.3	0.5	0.3	0.5	0.3	0.3	0.3	0.3	0.3	0.3
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°	731.0	731.0	731.0	731.0	731.0	731.0	731.0	731.0	731.0	731.0	731.0
2.5°	732.2	731.6	731.3	731.0	730.8	730.5	730.2	729.6	729.4	729.1	728.6
5°	732.2	731.0	730.5	729.6	729.1	728.6	727.7	726.9	726.0	725.2	724.3
7.5°	731.0	729.4	728.3	726.6	726.0	725.2	723.5	722.3	721.0	719.3	717.3
10°	728.3	726.3	724.0	721.8	721.0	719.5	717.3	715.4	713.0	710.8	708.8
12.5°	723.7	720.6	717.9	714.7	713.0	711.7	708.6	705.7	703.0	700.4	697.1
15°	717.0	713.3	709.7	705.5	703.5	701.8	697.3	694.0	689.4	686.1	682.7
17.5°	706.1	700.4	695.9	690.6	687.8	685.7	681.8	676.5	672.3	668.6	664.7
20°	687.2	681.8	675.7	669.8	666.7	664.2	658.6	652.9	648.7	644.7	640.5
22.5°	662.5	655.7	651.2	643.9	641.3	638.3	631.5	626.4	621.7	617.7	613.8
25°	632.3	626.4	620.3	613.5	610.4	606.7	601.1	595.8	592.7	588.2	583.5
27.5°	597.8	593.0	585.4	579.5	576.4	573.6	568.2	563.5	558.9	555.9	551.4
30°	561.3	555.6	548.9	542.7	541.0	537.6	532.8	529.2	524.4	522.5	520.4
32.5°	521.0	514.5	509.5	505.5	502.1	499.4	496.9	490.9	490.1	485.0	484.5
35°	477.2	474.3	469.6	466.2	463.3	461.4	457.2	454.3	451.3	450.4	448.5
37.5°	435.8	432.5	427.9	424.8	422.9	422.6	419.5	417.9	415.6	414.5	412.2
40°	392.5	391.1	387.2	386.7	383.5	383.3	381.6	379.6	377.7	377.7	377.9
42.5°	352.6	350.9	349.2	347.2	345.5	345.5	344.7	344.1	343.6	342.8	344.1
45°	315.2	312.9	311.8	309.9	310.7	309.0	308.5	308.5	307.7	307.3	309.3
47.5°	280.4	277.8	276.7	276.1	276.1	276.4	273.9	274.7	274.4	275.0	275.8
50°	248.5	246.3	244.6	244.6	244.9	243.8	242.6	243.5	242.6	243.2	245.2
52.5°	219.0	216.8	216.0	216.0	214.3	214.0	214.6	213.4	213.7	214.0	215.1
55°	191.7	190.4	189.0	187.5	187.8	187.3	186.1	185.8	186.5	186.7	188.1
57.5°	167.3	165.3	163.4	162.8	162.2	162.2	160.9	160.5	161.1	159.7	159.7
60°	143.9	142.9	140.3	139.5	139.5	138.0	137.0	137.5	136.1	135.8	136.1
62.5°	122.3	121.5	119.8	118.1	117.5	117.0	115.6	115.0	114.4	113.3	111.6
65°	103.4	101.5	99.5	98.4	97.6	96.1	95.3	94.2	92.5	91.9	90.2
67.5°	84.6	82.7	80.7	79.8	79.0	78.2	76.8	75.4	73.4	71.2	69.2
70°	68.0	65.5	64.4	62.2	61.6	60.5	58.5	57.1	55.1	52.6	50.7
72.5°	52.0	50.3	48.6	46.6	45.3	44.4	42.7	40.5	38.3	36.8	34.9
75°	37.4	36.6	34.3	32.0	31.5	30.4	28.4	27.0	25.3	23.1	21.4
77.5°	25.3	23.6	22.2	20.2	19.7	18.5	17.4	16.1	14.9	13.5	12.4
80°	14.9	13.5	12.7	11.2	10.7	10.2	9.3	8.1	7.3	6.8	6.5
82.5°	7.3	6.2	5.9	5.1	4.8	4.5	3.9	3.7	3.1	3.1	3.1
85°	2.5	2.0	2.0	1.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4
87.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.3
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	731.0	731.0	731.0	731.0	731.0	731.0	731.0	731.0	731.0	731.0	731.0
2.5°	728.3	727.9	727.7	727.4	727.4	727.1	727.1	726.9	726.9	726.6	726.6
5°	723.2	722.3	721.8	721.2	721.2	720.3	719.8	719.3	719.0	719.0	718.4
7.5°	716.2	715.0	713.9	713.0	712.8	711.3	710.3	710.3	709.1	708.6	708.0
10°	706.9	704.9	703.2	702.4	701.3	700.4	699.0	698.1	697.3	695.9	695.6
12.5°	694.2	692.8	690.3	689.1	688.6	686.9	684.7	683.5	683.3	682.2	681.3
15°	679.9	676.8	674.5	673.2	673.2	670.3	669.2	667.6	666.4	665.5	665.2
17.5°	661.3	658.2	656.0	654.0	653.5	651.2	649.5	648.9	647.6	648.1	646.7
20°	637.4	634.9	633.2	630.6	630.6	629.3	628.7	627.3	626.7	626.2	626.7
22.5°	611.8	608.8	605.9	605.7	605.7	603.7	603.4	603.1	602.0	602.8	602.5
25°	581.8	579.5	577.8	577.6	577.6	576.4	575.3	575.9	576.7	576.4	577.2
27.5°	550.6	548.3	547.7	547.4	546.9	546.6	547.2	547.2	548.0	549.1	550.3
30°	516.8	516.2	515.4	515.2	514.5	516.0	516.5	517.4	517.1	518.8	519.9
32.5°	483.1	481.9	481.6	482.3	483.1	482.8	484.5	485.0	485.6	487.6	488.4
35°	449.1	448.7	448.2	448.2	448.5	450.7	450.7	452.7	453.8	454.3	456.7
37.5°	412.5	413.6	414.2	415.0	415.3	416.2	416.7	418.7	419.8	420.9	422.1
40°	379.0	378.5	381.0	379.3	379.9	382.4	383.5	383.3	385.0	386.7	387.7
42.5°	343.3	344.1	344.7	345.3	346.7	347.0	348.4	350.4	350.9	352.9	353.4
45°	308.7	309.0	310.1	311.3	312.1	314.3	315.0	315.8	317.5	317.5	318.3
47.5°	276.1	277.2	277.2	278.9	280.4	280.1	282.1	282.6	282.3	283.8	284.3
50°	244.9	246.6	246.3	247.5	248.0	248.3	250.0	250.5	249.4	250.8	251.1
52.5°	215.1	216.0	217.0	217.3	216.8	218.2	217.7	218.7	218.5	219.6	218.5
55°	187.8	187.5	187.5	188.1	187.5	188.1	188.7	187.5	186.7	187.8	187.5
57.5°	160.5	160.5	160.0	160.9	160.0	159.2	158.9	158.0	157.2	157.2	156.9
60°	135.0	134.4	133.3	133.0	133.0	131.6	131.0	129.9	129.9	128.8	127.7
62.5°	111.0	109.7	108.8	108.8	108.3	106.8	104.3	102.6	102.1	100.4	100.1
65°	88.5	87.1	86.3	84.6	83.2	82.7	80.2	78.2	77.3	75.6	75.9
67.5°	68.0	65.8	63.2	62.2	61.3	59.3	58.5	57.1	56.3	56.3	56.3
70°	49.0	47.0	44.4	43.6	43.0	41.4	40.5	40.2	41.0	40.8	41.0
72.5°	32.9	30.9	29.8	29.2	28.7	27.8	28.4	28.7	28.1	28.4	28.7
75°	20.0	19.4	18.5	18.3	18.3	18.5	18.3	18.3	18.5	18.5	18.8
77.5°	11.5	11.0	11.0	10.7	11.2	11.0	11.0	11.0	11.2	11.2	11.2
80°	6.2	6.2	6.2	6.2	6.5	6.2	6.5	6.5	6.5	6.5	6.5
82.5°	3.1	3.1	3.1	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.1
85°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
87.5°	0.3	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3
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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CATALOG NUMBER: LX4C20D010 EX4C209840 4LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	731.0	731.0	731.0	731.0	731.0	731.0	731.0	731.0
2.5°	726.0	726.0	726.0	725.4	725.7	725.7	725.4	725.4
5°	718.1	717.9	717.3	717.3	716.7	717.3	717.0	717.3
7.5°	707.4	707.4	706.6	706.6	706.3	706.1	705.7	706.1
10°	694.8	694.8	694.2	694.0	694.2	693.1	693.1	692.8
12.5°	680.8	680.1	679.6	679.9	679.6	678.8	678.5	678.8
15°	664.4	663.5	663.9	663.0	663.0	662.7	663.3	663.3
17.5°	646.4	645.9	645.3	645.6	645.0	645.3	645.0	644.7
20°	626.4	626.2	626.2	625.0	625.4	625.0	625.4	626.2
22.5°	603.4	603.1	603.4	602.5	603.1	603.1	604.0	604.0
25°	578.1	577.8	578.4	578.7	578.9	579.8	578.9	579.2
27.5°	550.0	550.8	551.6	552.0	553.1	552.3	551.6	552.5
30°	521.6	521.6	521.3	522.5	523.3	524.1	522.7	522.7
32.5°	488.9	490.4	490.4	490.6	491.5	491.5	491.5	492.6
35°	457.7	458.6	458.9	457.7	458.4	458.0	460.0	460.0
37.5°	422.9	422.9	423.1	425.2	425.2	424.3	424.8	424.8
40°	389.7	390.0	388.9	389.4	390.9	390.3	390.9	391.4
42.5°	353.4	355.4	354.3	354.8	354.6	354.8	355.1	355.1
45°	318.9	319.4	319.4	319.7	320.2	320.8	319.2	318.9
47.5°	285.1	285.4	286.2	284.8	286.5	284.8	286.5	284.6
50°	251.1	252.2	251.4	251.9	251.1	251.1	250.8	250.5
52.5°	218.7	218.5	218.5	218.2	218.2	218.7	218.2	219.0
55°	186.5	186.7	186.1	185.8	185.6	186.5	185.6	185.0
57.5°	155.8	156.3	155.3	155.8	153.8	154.6	154.9	155.3
60°	127.3	126.5	126.5	125.4	125.4	126.3	125.1	125.1
62.5°	98.7	99.3	98.4	99.5	99.5	100.7	100.1	100.7
65°	75.6	75.9	76.2	76.2	76.2	77.8	77.3	76.5
67.5°	57.1	57.3	57.6	57.3	58.2	57.6	57.6	58.0
70°	41.4	41.6	41.9	41.9	41.6	41.9	41.9	41.9
72.5°	28.7	29.0	28.7	29.0	29.2	29.0	29.0	29.2
75°	18.8	18.8	18.5	18.5	18.5	18.5	18.8	18.5
77.5°	11.0	11.2	11.0	11.2	11.2	11.2	11.2	11.2
80°	6.5	6.5	6.5	6.2	6.5	6.5	6.5	6.2
82.5°	3.4	3.4	3.1	3.1	3.4	3.4	3.4	3.4
85°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
87.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
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)