

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: P857227

Luminaire Tested: **LX4C20D010 EX4C209827 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P857227
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 EX4C209827 4LBLWWH
Description:
Light Source: -
Ballast/Driver: -

Summary

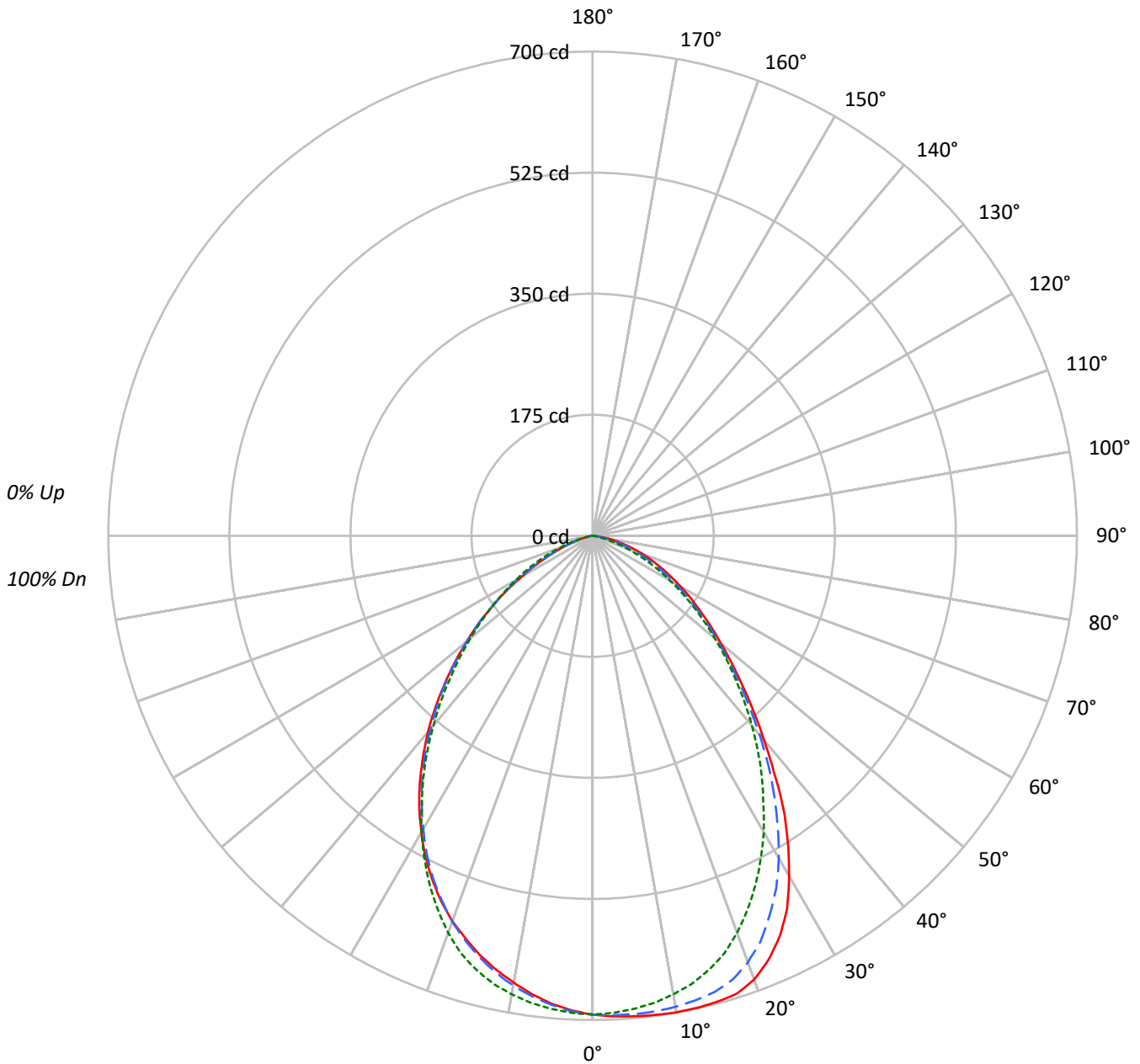
Lumens per Lamp: N/A
Luminaire Lumens: 1304.6 lumens
Efficiency: N/A
Efficacy: 59.8 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	85051	85051	85051
5°	85993	84673	83761
10°	87262	83968	81848
15°	88688	82621	79886
20°	89255	79816	77515
25°	86700	75503	74351
30°	80576	70178	70220
35°	72109	63965	65330
40°	61744	57350	59435
45°	53165	50559	52452
50°	46214	44016	45335
55°	40674	37869	37526
60°	36168	31598	29116
65°	31715	25291	21046
70°	27263	17888	14260
75°	22120	10348	8354
80°	15848	4528	4174
85°	6061	1832	1832



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.2	5.0
10°-20°	184.7	14.2
20°-30°	263.7	20.2
30°-40°	275.9	21.1
40°-50°	231.2	17.7
50°-60°	161.8	12.4
60°-70°	88.1	6.8
70°-80°	30.6	2.3
80°-90°	3.5	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°	513.6	39.4
0°-40°	789.5	60.5
0°-60°	1182.4	90.6
0°-90°	1304.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1304.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	692	692	692	692	692	
5°	697	694	687	681	679	67
15°	697	683	650	631	628	197
25°	640	606	557	546	548	292
35°	481	457	426	430	436	298
45°	306	299	291	301	302	238
55°	190	183	177	177	175	172
65°	109	100	87	73	72	109
75°	47	38	22	18	18	50
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°	692.3	692.3	692.3	692.3	692.3	692.3	692.3	692.3	692.3	692.3	692.3
2.5°	695.5	694.7	694.9	694.9	694.9	694.7	694.9	694.7	694.7	694.4	693.9
5°	697.3	696.8	696.8	696.8	696.5	696.3	696.3	696.0	695.5	695.2	694.1
7.5°	698.7	698.1	698.1	697.9	697.6	697.3	697.1	696.3	695.5	694.9	693.6
10°	699.5	698.7	698.7	698.1	697.6	697.3	696.8	695.7	694.7	693.3	691.5
12.5°	698.9	698.1	697.9	697.3	696.3	695.7	695.2	693.9	692.0	690.1	687.7
15°	697.3	696.8	696.3	695.5	694.1	693.3	692.8	690.7	688.2	685.6	682.7
17.5°	694.1	693.3	692.3	691.2	689.3	688.5	687.2	684.5	681.1	677.4	672.8
20°	682.7	682.2	681.1	679.2	676.3	675.2	673.4	669.9	665.3	660.9	656.1
22.5°	663.8	663.0	661.4	659.8	657.1	655.3	653.6	648.8	643.8	639.0	634.5
25°	639.6	638.8	636.6	634.5	631.8	628.6	627.1	623.3	618.2	612.1	605.5
27.5°	608.4	605.8	605.0	602.5	598.5	597.5	595.1	590.2	585.5	580.2	574.5
30°	568.0	568.0	566.3	565.3	561.5	560.5	557.8	552.7	550.1	542.6	538.3
32.5°	525.1	524.5	523.2	522.4	520.2	518.4	515.7	513.1	507.2	503.5	497.6
35°	480.8	477.6	478.2	476.6	475.3	473.2	472.9	469.9	464.6	462.5	457.2
37.5°	430.5	429.2	431.1	428.7	427.3	427.6	425.5	423.6	421.4	417.8	416.7
40°	385.0	386.0	385.8	383.7	384.7	383.4	381.3	379.4	378.4	376.0	375.2
42.5°	344.3	342.7	342.2	342.2	342.4	342.4	341.4	340.0	340.0	337.6	335.2
45°	306.0	306.0	305.4	307.0	304.6	304.6	303.8	303.5	302.5	301.9	299.0
47.5°	272.9	272.6	272.3	272.1	271.8	271.8	270.3	268.9	268.7	267.1	265.5
50°	241.8	243.4	242.8	241.5	240.9	241.2	240.1	239.3	239.1	236.4	236.7
52.5°	215.6	215.4	215.9	215.2	213.8	214.1	213.0	212.0	210.9	209.6	208.5
55°	189.9	191.2	190.7	189.9	189.6	189.0	188.2	186.9	186.6	183.7	183.4
57.5°	168.3	168.0	167.5	166.1	165.9	165.1	165.1	164.0	162.4	160.8	159.4
60°	147.2	147.2	146.4	146.2	145.1	144.8	144.6	143.5	141.6	140.4	138.2
62.5°	127.0	127.5	127.0	126.2	125.4	124.3	123.8	123.0	121.5	120.1	118.2
65°	109.1	108.9	108.6	107.5	107.3	106.2	105.9	104.3	102.8	101.7	99.6
67.5°	92.1	91.3	91.3	90.8	90.2	89.4	88.9	87.3	85.4	84.4	82.3
70°	75.9	75.4	75.4	75.4	74.0	73.2	72.9	72.1	69.5	68.4	66.3
72.5°	61.0	60.7	60.5	59.7	58.9	58.9	57.8	56.2	54.8	53.5	51.9
75°	46.6	47.1	46.6	45.6	45.3	44.8	44.0	42.6	41.3	39.7	37.8
77.5°	34.1	33.5	33.0	33.0	32.5	31.4	31.1	30.1	28.4	27.5	25.6
80°	22.4	22.1	21.6	21.0	20.8	20.5	20.2	19.2	17.6	16.8	15.2
82.5°	12.2	11.9	11.9	11.7	10.9	10.9	10.6	9.5	8.8	8.3	7.5
85°	4.3	4.3	4.3	4.0	4.0	4.0	3.7	3.5	3.2	2.9	2.4
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°	692.3	692.3	692.3	692.3	692.3	692.3	692.3	692.3	692.3	692.3	692.3
2.5°	693.3	692.8	692.5	692.3	692.0	691.7	691.5	690.9	690.7	690.4	689.9
5°	693.3	692.3	691.7	690.9	690.4	689.9	689.0	688.2	687.4	686.6	685.8
7.5°	692.3	690.7	689.6	688.0	687.4	686.6	685.0	684.0	682.7	681.1	679.2
10°	689.6	687.7	685.6	683.5	682.7	681.4	679.2	677.4	675.2	673.1	671.2
12.5°	685.3	682.5	679.8	676.8	675.2	673.9	670.9	668.3	665.6	663.3	660.1
15°	679.0	675.5	672.0	668.0	666.1	664.6	660.3	657.1	652.8	649.6	646.4
17.5°	668.5	663.3	659.0	653.9	651.2	649.4	645.7	640.6	636.6	633.1	629.4
20°	650.7	645.7	639.8	634.2	631.3	628.9	623.6	618.2	614.2	610.5	606.6
22.5°	627.3	620.9	616.6	609.7	607.4	604.4	598.0	593.2	588.7	585.0	581.2
25°	598.8	593.2	587.4	581.0	578.0	574.5	569.3	564.2	561.3	557.0	552.4
27.5°	566.1	561.5	554.3	548.8	545.8	543.2	538.1	533.6	529.3	526.4	522.1
30°	531.5	526.1	519.7	513.9	512.3	509.1	504.5	501.1	496.5	494.7	492.9
32.5°	493.4	487.2	482.4	478.7	475.6	472.9	470.5	464.9	464.1	459.2	458.8
35°	451.8	449.2	444.6	441.4	438.8	437.0	432.9	430.3	427.3	426.5	424.6
37.5°	412.7	409.5	405.2	402.4	400.5	400.2	397.3	395.7	393.5	392.5	390.3
40°	371.7	370.3	366.6	366.1	363.2	362.9	361.3	359.5	357.6	357.6	357.9
42.5°	333.9	332.3	330.7	328.8	327.3	327.3	326.5	325.9	325.4	324.6	325.9
45°	298.5	296.3	295.3	293.4	294.2	292.6	292.0	292.0	291.2	291.0	292.8
47.5°	265.5	263.1	262.0	261.5	261.5	261.7	259.3	260.1	259.9	260.4	261.2
50°	235.3	233.3	231.7	231.7	231.9	230.9	229.8	230.6	229.8	230.3	232.2
52.5°	207.4	205.3	204.5	204.5	202.9	202.6	203.1	202.1	202.3	202.6	203.7
55°	181.6	180.2	178.9	177.6	177.9	177.4	176.3	176.0	176.6	176.8	178.1
57.5°	158.5	156.6	154.7	154.2	153.6	153.6	152.3	152.0	152.6	151.2	151.2
60°	136.3	135.3	132.9	132.1	132.1	130.7	129.7	130.2	128.9	128.6	128.9
62.5°	115.8	115.0	113.4	111.8	111.3	110.8	109.4	108.9	108.3	107.3	105.7
65°	98.0	96.1	94.3	93.2	92.4	91.0	90.2	89.2	87.6	87.0	85.4
67.5°	80.2	78.3	76.4	75.6	74.8	74.0	72.7	71.3	69.5	67.3	65.5
70°	64.5	62.1	61.0	58.9	58.3	57.2	55.4	54.0	52.2	49.8	47.9
72.5°	49.2	47.6	46.1	44.2	42.9	42.1	40.5	38.3	36.2	34.9	33.0
75°	35.4	34.6	32.5	30.3	29.8	28.7	26.9	25.6	24.0	21.8	20.2
77.5°	24.0	22.4	21.0	19.2	18.6	17.6	16.5	15.2	14.1	12.8	11.7
80°	14.1	12.8	11.9	10.6	10.1	9.5	8.8	7.8	7.0	6.4	6.2
82.5°	7.0	5.9	5.6	4.8	4.5	4.3	3.7	3.5	2.9	2.9	2.9
85°	2.4	1.9	1.9	1.6	1.3	1.3	1.3	1.3	1.3	1.3	1.3
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°	692.3	692.3	692.3	692.3	692.3	692.3	692.3	692.3	692.3	692.3	692.3
2.5°	689.6	689.3	689.0	688.8	688.8	688.5	688.5	688.2	688.2	688.0	688.0
5°	684.8	684.0	683.5	683.0	683.0	682.2	681.6	681.1	680.8	680.8	680.3
7.5°	678.2	677.1	676.0	675.2	675.0	673.6	672.6	672.6	671.5	670.9	670.4
10°	669.3	667.5	665.9	665.1	664.1	663.3	661.9	661.1	660.3	659.0	658.7
12.5°	657.4	656.1	653.6	652.6	652.0	650.4	648.3	647.2	647.0	646.0	645.2
15°	643.8	640.9	638.8	637.4	637.4	634.7	633.7	632.1	631.0	630.2	629.9
17.5°	626.3	623.3	621.2	619.3	618.8	616.6	615.0	614.5	613.2	613.7	612.4
20°	603.6	601.2	599.6	597.2	597.2	595.9	595.3	594.0	593.5	592.9	593.5
22.5°	579.4	576.4	573.7	573.5	573.5	571.6	571.3	571.2	570.1	570.9	570.6
25°	550.9	548.8	547.2	546.9	546.9	545.8	544.8	545.3	546.1	545.8	546.6
27.5°	521.3	519.2	518.6	518.4	517.8	517.6	518.1	518.1	518.9	520.0	521.0
30°	489.4	488.9	488.1	487.8	487.2	488.6	489.1	489.9	489.7	491.3	492.3
32.5°	457.5	456.4	456.1	456.7	457.5	457.2	458.8	459.2	459.8	461.7	462.5
35°	425.2	424.9	424.4	424.4	424.6	426.8	426.8	428.7	429.7	430.3	432.4
37.5°	390.6	391.7	392.2	393.0	393.3	394.1	394.6	396.5	397.5	398.6	399.7
40°	358.9	358.4	360.8	359.2	359.7	362.1	363.2	362.9	364.5	366.1	367.1
42.5°	325.1	325.9	326.5	327.0	328.3	328.5	329.9	331.7	332.3	334.1	334.7
45°	292.3	292.6	293.7	294.7	295.5	297.7	298.2	299.0	300.6	300.6	301.4
47.5°	261.5	262.5	262.5	264.1	265.5	265.2	267.1	267.6	267.3	268.7	269.2
50°	231.9	233.5	233.3	234.3	234.8	235.1	236.7	237.2	236.1	237.5	237.7
52.5°	203.7	204.5	205.5	205.8	205.3	206.6	206.1	207.2	206.9	208.0	206.9
55°	177.9	177.6	177.6	178.1	177.6	178.1	178.6	177.6	176.8	177.9	177.6
57.5°	152.0	152.0	151.5	152.3	151.5	150.7	150.4	149.6	148.8	148.8	148.6
60°	127.8	127.3	126.2	125.9	125.9	124.6	124.0	123.0	123.0	121.9	120.9
62.5°	105.1	103.8	103.0	103.0	102.6	101.2	98.8	97.2	96.7	95.1	94.8
65°	83.9	82.6	81.8	80.2	78.8	78.3	75.9	74.0	73.2	71.6	71.9
67.5°	64.5	62.3	59.9	58.9	58.1	56.2	55.4	54.0	53.2	53.2	53.2
70°	46.4	44.5	42.1	41.3	40.8	39.1	38.3	38.1	38.9	38.6	38.9
72.5°	31.1	29.2	28.2	27.7	27.2	26.4	26.9	27.2	26.7	26.9	27.2
75°	18.9	18.4	17.6	17.3	17.3	17.6	17.3	17.3	17.6	17.6	17.8
77.5°	10.9	10.3	10.3	10.1	10.6	10.3	10.3	10.3	10.6	10.6	10.6
80°	5.9	5.9	5.9	5.9	6.2	5.9	6.2	6.2	6.2	6.2	6.2
82.5°	2.9	2.9	2.9	3.2	3.2	3.2	3.2	3.2	3.2	3.2	2.9
85°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
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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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	692.3	692.3	692.3	692.3	692.3	692.3	692.3	692.3
2.5°	687.4	687.4	687.4	686.9	687.2	687.2	686.9	686.9
5°	680.0	679.8	679.2	679.2	678.7	679.2	679.0	679.2
7.5°	669.9	669.9	669.1	669.1	668.8	668.5	668.3	668.5
10°	657.9	657.9	657.4	657.1	657.4	656.3	656.3	656.1
12.5°	644.6	644.1	643.6	643.8	643.6	642.8	642.5	642.8
15°	629.1	628.3	628.6	627.8	627.8	627.5	628.1	628.1
17.5°	612.1	611.6	611.0	611.3	610.8	611.0	610.8	610.5
20°	593.2	592.9	592.9	591.8	592.1	591.8	592.1	592.9
22.5°	571.3	571.2	571.3	570.6	571.2	571.2	571.9	571.9
25°	547.4	547.2	547.7	548.0	548.2	549.0	548.2	548.5
27.5°	520.8	521.6	522.4	522.6	523.7	522.9	522.4	523.2
30°	493.9	493.9	493.7	494.7	495.5	496.3	495.0	495.0
32.5°	463.0	464.3	464.3	464.6	465.4	465.4	465.4	466.5
35°	433.5	434.3	434.5	433.5	434.0	433.7	435.6	435.6
37.5°	400.5	400.5	400.7	402.6	402.6	401.8	402.4	402.4
40°	369.0	369.3	368.2	368.7	370.1	369.5	370.1	370.6
42.5°	334.7	336.5	335.5	336.0	335.7	336.0	336.3	336.3
45°	301.9	302.5	302.5	302.7	303.3	303.8	302.2	301.9
47.5°	270.0	270.3	271.1	269.8	271.4	269.8	271.4	269.5
50°	237.7	238.8	238.0	238.5	237.7	237.7	237.5	237.2
52.5°	207.2	206.9	206.9	206.6	206.6	207.2	206.6	207.4
55°	176.6	176.8	176.3	176.0	175.8	176.6	175.8	175.2
57.5°	147.5	148.0	147.0	147.5	145.6	146.4	146.7	147.0
60°	120.7	119.9	119.9	118.8	118.8	119.6	118.5	118.5
62.5°	93.5	94.0	93.2	94.3	94.3	95.3	94.8	95.3
65°	71.6	71.9	72.1	72.1	72.1	73.7	73.2	72.4
67.5°	54.0	54.3	54.6	54.3	55.1	54.6	54.6	54.8
70°	39.1	39.4	39.7	39.7	39.4	39.7	39.7	39.7
72.5°	27.2	27.5	27.2	27.5	27.7	27.5	27.5	27.7
75°	17.8	17.8	17.6	17.6	17.6	17.6	17.8	17.6
77.5°	10.3	10.6	10.3	10.6	10.6	10.6	10.6	10.6
80°	6.2	6.2	6.2	5.9	6.2	6.2	6.2	5.9
82.5°	3.2	3.2	2.9	2.9	3.2	3.2	3.2	3.2
85°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
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)