

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: P857029

Luminaire Tested: **LX4C15D010 EX4C159827 4LBSWNH**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P857029
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: LX4C15D010 EX4C159827 4LBSWNH
Description:
Light Source: -
Ballast/Driver: -

Summary

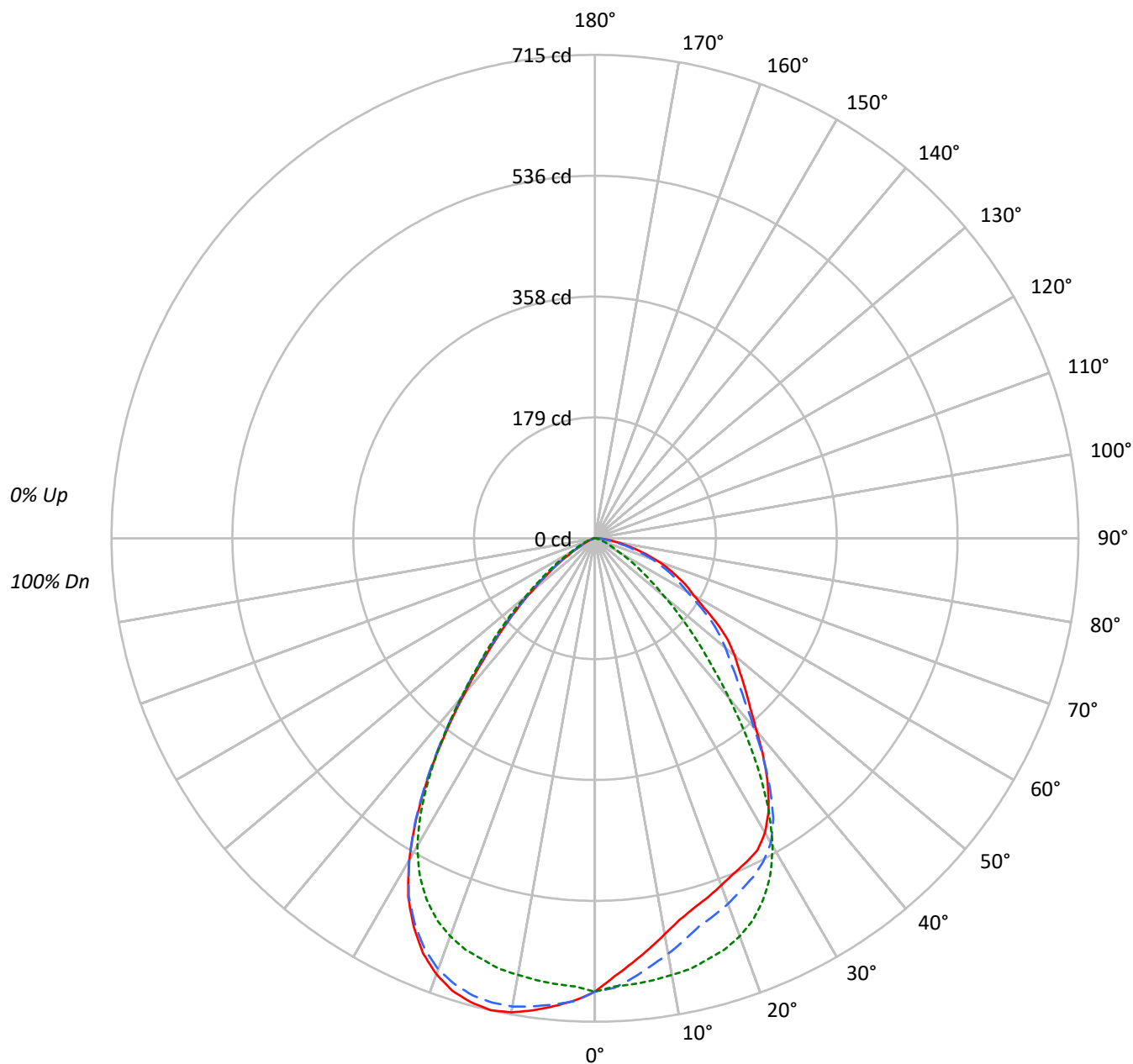
Lumens per Lamp: N/A
Luminaire Lumens: 1175.3 lumens
Efficiency: N/A
Efficacy: 74.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 15.8
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

TEST NUMBER: P857029

CATALOG NUMBER: LX4C15D010 EX4C159827 4LBSWNH

Luminous Intensity Polar Plot





TEST NUMBER: P857029

CATALOG NUMBER: LX4C15D010 EX4C159827 4LBSWNH

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	82373	82373	82373
5°	77780	81627	85672
10°	74151	81810	88821
15°	71975	81985	90341
20°	71396	81894	89686
25°	71681	79882	85968
30°	71341	74519	77952
35°	66874	63635	64280
40°	59579	49347	48224
45°	54485	36781	34522
50°	51528	25764	23279
55°	47378	17392	14608
60°	41402	10197	8059
65°	39186	6541	4506
70°	35669	4634	2802
75°	29524	3275	2089
80°	23206	1839	1203
85°	20721	1269	0



TEST NUMBER: P857029

CATALOG NUMBER: LX4C15D010 EX4C159827 4LBSWNH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.3	5.4
10°-20°	181.7	15.5
20°-30°	269.4	22.9
30°-40°	269.8	23.0
40°-50°	188.5	16.0
50°-60°	112.2	9.5
60°-70°	58.5	5.0
70°-80°	26.0	2.2
80°-90°	5.7	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°	514.5	43.8
0°-40°	784.3	66.7
0°-60°	1085.0	92.3
0°-90°	1175.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1175.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	670	670	670	670	670	
5°	631	652	662	692	695	59
15°	566	594	645	700	710	160
25°	529	553	589	630	634	244
35°	446	451	424	432	429	276
45°	314	298	212	205	199	244
55°	221	207	81	71	68	196
65°	135	124	22	16	16	133
75°	62	54	7	4	4	67
85°	15	11	1	1	0	16
90°	0	0	0	0	0	



TEST NUMBER: P857029

CATALOG NUMBER: LX4C15D010 EX4C159827 4LBSWNH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	670.5	670.5	670.5	670.5	670.5	670.5	670.5	670.5	670.5	670.5	670.5
2.5°	648.9	656.7	648.9	651.5	661.9	652.3	657.6	657.6	655.0	661.0	665.3
5°	630.7	638.5	630.7	634.2	645.4	635.9	642.0	640.3	641.2	646.3	652.3
7.5°	612.6	618.6	611.7	616.1	626.4	618.6	623.9	623.9	624.7	632.4	637.7
10°	594.4	599.6	594.4	597.9	609.1	602.3	605.7	606.6	609.1	616.1	623.9
12.5°	578.0	582.4	577.2	582.4	591.8	585.0	589.3	590.2	592.7	600.5	609.1
15°	565.9	570.3	565.1	569.4	578.0	572.9	576.3	578.0	579.7	586.7	594.4
17.5°	556.4	559.9	555.6	560.7	567.7	561.6	566.8	566.8	569.4	576.3	585.0
20°	546.1	549.5	546.1	550.4	558.1	553.0	557.3	557.3	559.9	567.7	575.4
22.5°	536.6	538.3	536.6	540.0	547.8	543.5	546.1	546.9	549.5	556.4	563.4
25°	528.8	532.3	530.5	534.0	539.1	534.9	537.5	538.3	540.8	546.9	553.0
27.5°	520.2	521.8	520.2	524.5	528.8	525.3	527.9	527.0	528.8	534.0	539.1
30°	502.9	504.6	504.6	507.1	510.7	508.9	511.5	508.9	510.7	515.0	520.2
32.5°	477.8	478.7	479.6	482.2	484.8	482.2	483.9	483.9	483.9	487.3	490.8
35°	445.9	447.6	446.7	448.5	451.0	450.2	450.2	449.3	447.6	449.3	451.0
37.5°	409.6	407.0	407.0	409.6	411.3	407.8	409.6	407.8	407.8	408.7	408.7
40°	371.5	368.9	371.5	372.4	373.3	371.5	370.7	368.9	366.3	367.2	365.5
42.5°	339.6	337.8	338.7	338.7	339.6	337.8	338.7	335.2	332.6	330.9	328.3
45°	313.6	311.0	313.6	311.9	311.9	311.0	310.1	308.5	305.0	302.4	298.1
47.5°	289.5	289.5	290.3	290.3	290.3	288.6	288.6	285.1	281.7	278.2	272.2
50°	269.6	267.9	271.3	271.3	268.8	267.9	268.8	264.4	261.8	257.4	251.4
52.5°	248.0	248.0	248.9	248.9	248.0	246.2	247.1	243.6	241.0	236.8	230.7
55°	221.2	219.5	222.0	222.0	221.2	220.3	221.2	218.6	216.1	212.6	207.3
57.5°	190.9	190.1	191.8	192.7	190.9	190.9	191.8	189.2	188.3	184.9	179.7
60°	168.5	167.6	169.3	170.2	168.5	168.5	168.5	165.1	163.3	159.8	156.4
62.5°	152.9	152.0	153.8	152.9	152.0	151.2	152.0	148.7	146.9	143.5	140.0
65°	134.8	135.6	136.5	136.5	135.6	134.8	134.8	133.0	131.4	127.9	123.6
67.5°	117.5	117.5	118.3	119.2	118.3	118.3	118.3	115.7	114.1	111.5	106.3
70°	99.3	98.5	101.1	101.1	99.3	100.2	99.3	98.5	96.8	93.3	89.0
72.5°	80.3	80.3	81.2	81.2	80.3	80.3	80.3	79.5	76.9	75.2	70.9
75°	62.2	62.2	63.0	63.9	62.2	62.2	63.0	61.4	59.6	57.1	54.4
77.5°	46.6	45.8	46.6	46.6	45.8	45.8	45.8	44.9	44.1	41.5	38.9
80°	32.8	32.0	32.8	32.8	32.8	32.0	32.0	31.1	31.1	29.3	26.8
82.5°	22.5	21.6	22.5	22.5	22.5	21.6	21.6	21.6	20.7	19.9	18.2
85°	14.7	13.8	13.8	14.7	13.8	13.8	13.8	13.8	12.9	12.1	11.2
87.5°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.1	6.1	6.1	5.2
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: P857029

CATALOG NUMBER: LX4C15D010 EX4C159827 4LBSWNH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	670.5	670.5	670.5	670.5	670.5	670.5	670.5	670.5	670.5	670.5	670.5
2.5°	661.9	660.2	665.3	663.6	664.4	660.2	667.0	663.6	667.9	663.6	672.2
5°	650.6	648.9	656.7	655.8	656.7	653.2	661.0	660.2	665.3	661.9	671.3
7.5°	638.5	636.8	645.4	646.3	648.0	644.6	655.0	655.0	660.2	659.3	669.6
10°	624.7	625.6	634.2	635.9	639.4	637.7	647.1	649.8	656.7	655.8	668.8
12.5°	611.7	611.7	623.0	626.4	629.0	628.1	639.4	642.9	650.6	652.3	664.4
15°	598.8	599.6	610.0	615.2	618.6	617.8	629.9	634.2	643.7	644.6	659.3
17.5°	588.4	587.6	598.8	603.1	608.3	607.5	620.4	625.6	635.1	637.7	651.5
20°	579.7	578.9	589.3	594.4	597.9	597.1	610.0	616.1	624.7	626.4	640.3
22.5°	569.4	567.7	578.0	582.4	585.8	585.0	596.2	600.5	609.1	610.9	623.9
25°	557.3	555.6	565.1	567.7	570.3	568.6	578.0	580.6	587.6	589.3	602.3
27.5°	543.5	539.1	546.9	546.9	548.7	546.1	553.0	555.6	561.6	561.6	573.7
30°	521.8	515.9	520.2	519.3	520.2	516.7	521.0	521.8	526.2	525.3	534.0
32.5°	491.6	483.0	485.6	483.0	480.4	475.2	480.4	478.7	482.2	478.7	486.4
35°	450.2	441.5	440.7	437.2	434.6	430.3	430.3	426.0	426.9	424.3	429.5
37.5°	405.2	394.0	392.3	385.4	381.0	375.9	375.9	372.4	368.1	366.3	370.7
40°	361.2	349.0	344.7	333.5	329.2	324.0	320.6	316.2	314.5	307.7	311.0
42.5°	323.2	310.1	300.7	288.6	284.3	276.5	271.3	266.1	263.5	255.8	259.2
45°	291.2	275.6	265.3	249.7	243.6	235.1	227.2	221.2	215.2	211.7	210.0
47.5°	264.4	248.0	234.2	216.9	207.3	199.6	189.2	183.2	175.4	171.0	168.5
50°	241.9	223.7	208.2	188.3	178.9	170.2	158.1	148.7	141.7	134.8	133.0
52.5°	222.0	203.0	185.7	163.3	152.0	141.7	128.8	118.3	112.3	104.6	103.7
55°	198.7	182.4	163.3	140.0	128.8	118.3	104.6	94.2	86.4	81.2	79.5
57.5°	173.7	158.1	140.0	116.6	105.4	94.2	81.2	71.7	64.8	60.5	59.6
60°	150.3	135.6	118.3	95.1	83.8	74.3	60.5	51.0	44.9	41.5	39.8
62.5°	133.0	119.2	102.8	81.2	70.9	61.4	48.4	39.8	34.5	31.1	29.3
65°	116.6	102.8	88.1	68.2	59.6	51.0	38.9	31.1	25.9	22.5	20.7
67.5°	99.3	87.3	73.4	57.1	48.4	41.5	31.1	24.2	19.9	17.3	15.5
70°	82.0	70.9	59.6	45.8	39.8	32.8	24.2	19.0	14.7	12.9	11.2
72.5°	64.8	56.2	46.6	35.4	30.2	25.9	19.0	13.8	11.2	9.5	7.8
75°	48.4	42.4	34.5	26.8	22.5	19.0	13.8	10.3	8.6	6.9	6.1
77.5°	34.5	29.3	24.2	18.2	16.4	13.8	9.5	7.8	6.1	4.4	3.5
80°	23.4	20.7	16.4	12.9	10.3	9.5	6.9	5.2	3.5	2.6	2.6
82.5°	15.5	12.9	10.3	7.8	6.9	6.1	4.4	3.5	2.6	1.7	1.7
85°	9.5	7.8	6.1	4.4	4.4	3.5	2.6	1.7	0.9	0.9	0.9
87.5°	4.4	3.5	2.6	1.7	1.7	0.9	0.9	0.9	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: P857029

CATALOG NUMBER: LX4C15D010 EX4C159827 4LBSWNH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	670.5	670.5	670.5	670.5	670.5	670.5	670.5	670.5	670.5	670.5	670.5
2.5°	679.2	674.0	670.5	674.8	676.6	674.0	676.6	680.8	685.2	686.0	674.0
5°	680.0	674.8	673.1	678.3	679.2	678.3	680.8	686.9	692.1	693.9	681.7
7.5°	680.0	676.6	675.7	681.7	682.6	681.7	686.0	693.0	698.1	701.6	689.5
10°	678.3	676.6	677.4	682.6	684.3	684.3	690.4	698.1	703.3	706.8	694.7
12.5°	675.7	675.7	675.7	681.7	683.4	684.3	689.5	699.8	703.3	708.5	696.5
15°	671.3	671.3	671.3	677.4	680.0	680.0	686.0	695.6	699.8	705.0	693.0
17.5°	663.6	663.6	664.4	669.6	672.2	672.2	678.3	688.7	691.2	697.3	685.2
20°	652.3	652.3	653.2	658.4	661.0	659.3	667.0	675.7	678.3	683.4	671.3
22.5°	635.9	635.9	635.9	641.2	642.9	642.0	649.8	657.6	657.6	664.4	651.5
25°	611.7	613.4	611.7	616.9	618.6	617.8	624.7	631.6	629.9	637.7	624.7
27.5°	582.4	581.5	581.5	585.8	585.8	585.0	590.2	597.9	596.2	601.4	589.3
30°	541.7	544.3	540.0	546.1	543.5	541.7	545.2	552.2	549.5	553.9	544.3
32.5°	495.1	491.6	491.6	491.6	493.4	489.0	492.5	496.0	493.4	497.7	487.3
35°	433.7	434.6	432.0	432.9	433.7	428.6	432.0	435.4	432.0	434.6	425.1
37.5°	372.4	373.3	367.2	370.7	367.2	365.5	368.9	370.7	367.2	369.8	359.5
40°	311.0	309.3	308.5	308.5	309.3	305.0	307.7	310.1	307.7	309.3	299.8
42.5°	257.4	256.6	254.9	255.8	253.2	252.3	253.2	255.8	253.2	254.9	248.0
45°	210.8	209.1	206.5	207.3	207.3	203.0	205.6	207.3	204.7	205.6	199.6
47.5°	167.6	165.1	165.1	164.2	164.2	162.5	165.1	164.2	161.6	163.3	157.3
50°	130.5	128.8	128.8	128.8	128.8	126.1	127.0	128.8	126.1	126.1	122.7
52.5°	101.9	99.3	97.6	97.6	97.6	96.8	96.8	97.6	95.1	95.1	94.2
55°	76.9	76.1	73.4	73.4	73.4	70.9	71.7	71.7	70.9	70.9	68.2
57.5°	57.1	54.4	52.7	52.7	51.0	51.0	50.1	51.0	49.2	49.2	47.5
60°	38.0	36.3	35.4	34.5	34.5	33.7	34.5	33.7	33.7	32.8	32.0
62.5°	27.6	25.9	24.2	24.2	24.2	23.4	23.4	23.4	23.4	23.4	22.5
65°	19.9	18.2	18.2	17.3	17.3	16.4	16.4	16.4	16.4	16.4	15.5
67.5°	13.8	12.9	12.1	12.1	12.1	12.1	12.1	12.1	11.2	11.2	11.2
70°	10.3	9.5	8.6	8.6	8.6	8.6	8.6	7.8	8.6	8.6	7.8
72.5°	6.9	6.9	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
75°	5.2	5.2	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
77.5°	3.5	3.5	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
80°	2.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
82.5°	1.7	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
85°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	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: P857029

CATALOG NUMBER: LX4C15D010 EX4C159827 4LBSWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	670.5	670.5	670.5	670.5	670.5	670.5	670.5	670.5
2.5°	686.9	686.0	684.3	686.9	680.0	677.4	676.6	684.3
5°	696.5	694.7	694.7	697.3	689.5	687.8	686.0	694.7
7.5°	705.0	703.3	703.3	705.9	699.0	697.3	695.6	704.2
10°	710.3	710.3	710.3	712.0	705.9	704.2	703.3	712.0
12.5°	712.9	712.9	712.0	715.4	707.7	707.7	705.9	714.6
15°	709.4	709.4	709.4	712.0	705.0	703.3	703.3	710.3
17.5°	700.7	700.7	699.8	702.5	694.7	694.7	693.9	701.6
20°	687.8	687.8	686.0	689.5	681.7	679.2	678.3	686.0
22.5°	667.0	666.1	665.3	667.0	660.2	658.4	657.6	664.4
25°	640.3	639.4	637.7	639.4	631.6	629.0	629.0	634.2
27.5°	602.3	602.3	599.6	602.3	593.5	592.7	591.8	597.9
30°	555.6	552.2	550.4	553.9	545.2	545.2	543.5	549.5
32.5°	497.7	494.2	493.4	495.1	487.3	484.8	488.1	491.6
35°	431.2	432.0	428.6	428.6	421.6	422.5	423.4	428.6
37.5°	367.2	365.5	364.6	365.5	360.4	358.6	356.9	362.0
40°	307.7	303.3	302.4	302.4	298.1	297.2	298.1	300.7
42.5°	251.4	250.6	247.1	248.9	244.5	246.2	245.4	245.4
45°	203.0	203.9	200.5	203.0	199.6	197.0	197.0	198.7
47.5°	160.7	160.7	159.8	159.8	157.3	158.1	156.4	159.0
50°	124.4	124.4	122.7	123.6	121.8	121.8	120.9	121.8
52.5°	95.1	94.2	94.2	93.3	91.6	92.5	93.3	91.6
55°	69.1	70.0	68.2	69.1	67.4	68.2	67.4	68.2
57.5°	47.5	48.4	46.6	48.4	46.6	47.5	46.6	46.6
60°	32.8	32.8	32.0	32.8	32.0	32.0	31.1	32.8
62.5°	22.5	22.5	22.5	22.5	22.5	21.6	22.5	22.5
65°	16.4	15.5	15.5	15.5	15.5	15.5	15.5	15.5
67.5°	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
70°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
72.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
75°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
77.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
80°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
85°	0.9	0.9	0.9	0.0	0.9	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)