

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: P857226

Luminaire Tested: **LX4C20D010 EX4C209827 4LBLWW\***

Issue Date: 2/9/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P857226  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/9/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX4C20D010 EX4C209827 4LBLWW\*  
Description:  
Light Source: -  
Ballast/Driver: -

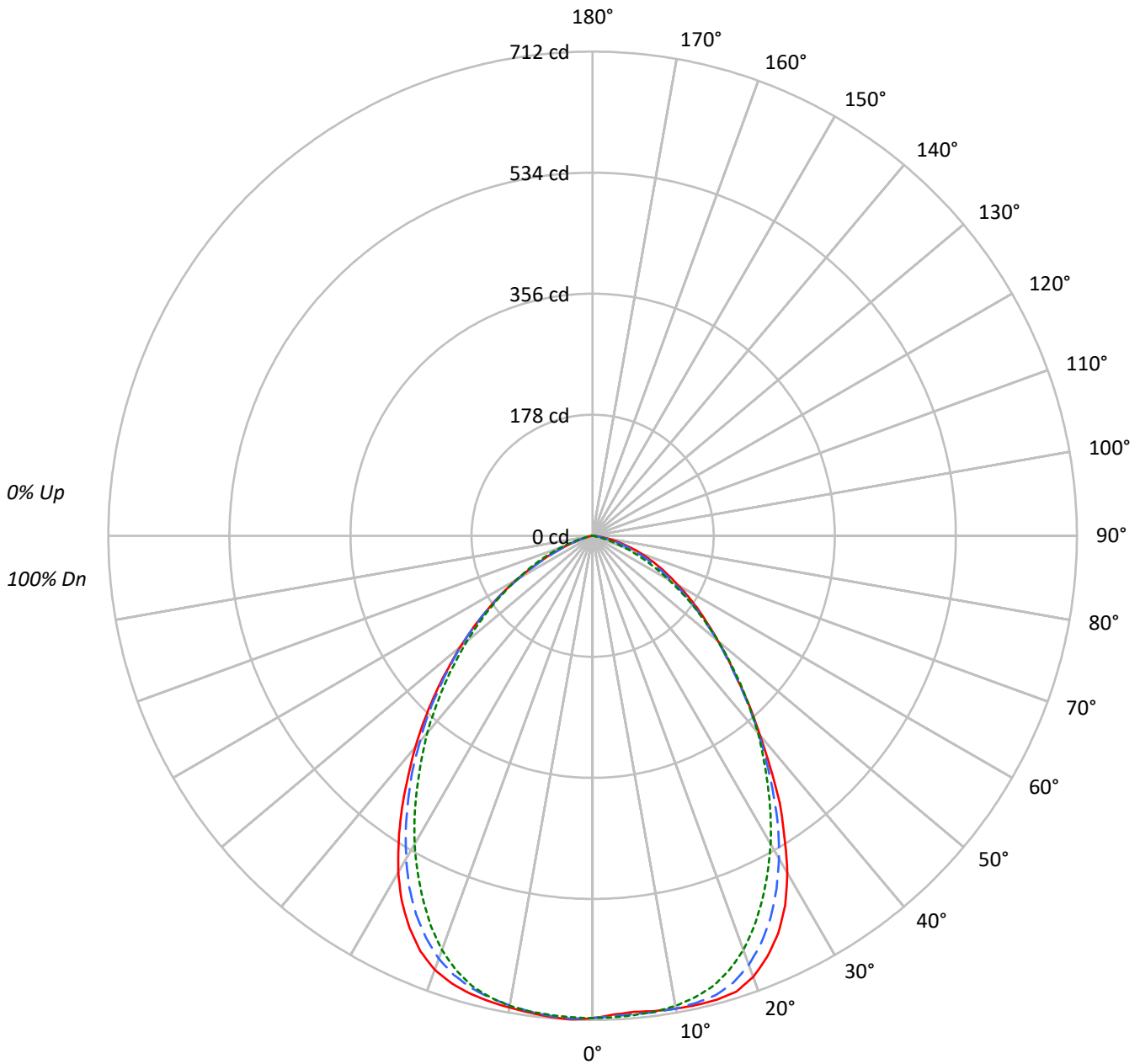
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1359.9 lumens  
Efficiency: N/A  
Efficacy: 62.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 21.8  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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: P857226

CATALOG NUMBER: LX4C20D010 EX4C209827 4LBLWW\*

### 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	109	105	102	99	101	99	96	97	95	93	94	92	91	89			89
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78			78
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68			68
4	88	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60			60
5	82	71	63	57	80	70	63	57	68	61	57	66	60	56	64	59	55	54			54
6	76	65	57	51	75	64	56	51	62	56	51	61	55	50	59	54	50	48			48
7	71	59	51	46	70	59	51	46	57	50	46	56	50	45	54	49	45	43			43
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	50	45	41	39			39
9	63	51	43	38	61	50	43	38	49	42	38	48	42	38	47	41	37	36			36
10	59	47	40	35	58	46	39	35	45	39	35	45	39	35	44	38	34	33			33

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	87140	87140	87140
5°	86659	87239	87571
10°	88098	87561	87898
15°	89820	87174	88624
20°	90261	84718	88771
25°	87486	80004	86294
30°	81200	74249	81044
35°	71914	67354	73263
40°	61295	60669	64967
45°	52661	53269	56605
50°	45966	46061	48527
55°	40632	38897	40225
60°	35603	31745	31622
65°	31511	24622	21918
70°	26868	16954	13003
75°	21740	9114	5933
80°	14857	2264	1486
85°	4511	705	705



TEST NUMBER: P857226

CATALOG NUMBER: LX4C20D010 EX4C209827 4LBLWW\*

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.4	5.0
10°-20°	195.2	14.4
20°-30°	282.0	20.7
30°-40°	291.5	21.4
40°-50°	240.9	17.7
50°-60°	166.2	12.2
60°-70°	87.0	6.4
70°-80°	27.4	2.0
80°-90°	2.3	0.2
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°	544.6	40.0
0°-40°	836.1	61.5
0°-60°	1243.1	91.4
0°-90°	1359.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1359.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	709	709	709	709	709	
5°	703	706	707	709	710	67
15°	706	700	685	688	697	199
25°	645	619	590	614	637	295
35°	480	463	449	472	488	298
45°	303	302	307	321	326	236
55°	190	184	182	187	188	170
65°	108	98	85	70	75	107
75°	46	36	19	13	12	49
85°	3	2	0	0	0	7
90°	0	0	0	0	0	



TEST NUMBER: P857226

CATALOG NUMBER: LX4C20D010 EX4C209827 4LBLWW\*

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	709.3	709.3	709.3	709.3	709.3	709.3	709.3	709.3	709.3	709.3	709.3
2.5°	704.8	705.1	705.1	705.6	705.6	705.6	705.9	705.9	706.2	706.4	706.7
5°	702.7	702.7	703.2	703.5	704.0	704.3	704.8	705.1	705.6	705.9	706.2
7.5°	704.8	704.8	705.1	705.4	705.4	705.6	705.6	705.9	706.2	706.4	706.4
10°	706.2	706.2	706.2	706.2	706.4	706.4	706.4	706.2	706.2	706.2	705.9
12.5°	706.7	706.7	706.4	706.2	706.4	706.2	706.2	705.4	704.8	704.3	703.5
15°	706.2	706.2	705.9	705.6	705.4	704.8	704.6	703.2	702.2	700.6	699.5
17.5°	702.7	702.2	701.6	701.1	700.0	699.2	698.7	696.3	694.4	691.7	688.8
20°	690.4	689.9	689.0	687.7	686.4	685.4	683.8	680.3	678.4	674.4	671.5
22.5°	670.4	669.9	670.1	667.7	665.2	663.5	662.5	659.5	656.3	651.2	648.0
25°	645.4	643.8	643.8	640.1	638.8	637.7	636.3	632.9	628.1	623.6	619.3
27.5°	612.9	610.8	609.7	609.1	605.9	603.6	601.7	599.1	595.1	591.0	585.2
30°	572.4	572.1	570.8	568.4	566.0	564.9	562.9	558.3	554.6	551.6	547.9
32.5°	524.7	524.4	524.4	524.4	522.8	522.6	519.4	517.0	514.1	509.5	507.1
35°	479.5	479.2	479.5	475.5	474.4	473.6	473.3	471.7	467.7	465.6	463.4
37.5°	428.3	429.1	428.6	427.5	428.8	426.4	428.3	424.8	423.2	422.7	420.3
40°	382.2	384.3	382.2	382.5	383.8	381.4	381.4	380.9	379.8	379.3	378.8
42.5°	342.8	340.1	341.7	340.4	341.7	340.9	339.6	340.4	340.6	339.6	339.3
45°	303.1	303.6	304.2	303.4	303.4	302.6	304.7	303.4	303.4	303.6	301.8
47.5°	270.9	270.1	270.6	270.1	270.4	269.8	270.4	270.6	270.1	270.1	268.5
50°	240.5	240.0	241.8	240.2	240.2	240.0	240.2	239.7	238.9	238.9	239.4
52.5°	214.2	213.1	212.9	214.2	212.3	212.3	212.6	212.1	211.0	210.5	209.1
55°	189.7	189.4	189.7	188.6	188.1	188.1	186.7	186.2	185.9	184.6	183.8
57.5°	166.8	166.0	166.2	166.0	164.9	164.6	163.5	163.5	162.5	161.4	160.1
60°	144.9	144.9	145.7	144.6	143.8	143.3	142.8	142.2	140.4	138.5	136.9
62.5°	125.5	125.7	125.5	124.7	124.1	123.6	123.1	121.5	119.9	118.8	116.9
65°	108.4	108.2	107.4	106.8	105.5	105.5	104.4	103.6	101.7	100.1	98.3
67.5°	90.9	90.3	90.3	90.3	88.7	88.5	87.9	86.3	84.7	82.6	81.0
70°	74.8	75.4	74.5	73.7	72.9	72.7	71.9	70.4	68.5	66.3	65.0
72.5°	59.7	60.2	59.4	59.1	57.5	57.0	56.7	55.4	53.2	51.9	49.8
75°	45.8	46.1	45.6	45.0	44.0	43.7	42.4	41.3	40.0	37.8	35.9
77.5°	33.0	32.5	32.5	31.4	30.4	30.4	30.1	28.5	26.7	25.1	23.5
80°	21.0	20.8	20.0	19.4	18.6	18.4	18.1	16.8	15.4	14.4	13.3
82.5°	10.6	10.3	10.2	9.9	9.4	8.8	9.1	8.0	7.5	6.4	5.6
85°	3.2	3.5	3.5	3.2	2.9	2.9	2.9	2.7	2.1	1.9	1.6
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: P857226

CATALOG NUMBER: LX4C20D010 EX4C209827 4LBLWW\*

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	709.3	709.3	709.3	709.3	709.3	709.3	709.3	709.3	709.3	709.3	709.3
2.5°	706.9	707.2	707.4	707.7	707.7	708.0	708.2	708.5	708.8	708.8	709.0
5°	706.4	706.9	706.9	707.2	707.2	707.2	707.4	707.4	707.4	707.4	707.7
7.5°	706.7	706.7	706.7	706.4	706.4	706.2	706.2	706.2	705.6	705.6	705.6
10°	705.4	705.1	704.8	704.3	704.0	703.8	703.2	702.7	702.2	701.9	701.4
12.5°	702.7	701.6	700.6	699.5	698.9	698.7	697.6	696.8	696.0	695.2	694.7
15°	697.3	695.7	693.9	691.7	691.2	690.7	688.8	687.2	686.2	685.4	684.1
17.5°	686.6	683.5	681.4	678.2	676.8	676.3	673.4	671.7	669.9	669.3	668.3
20°	667.7	664.9	660.9	657.9	656.3	654.7	652.3	650.2	648.0	648.0	646.7
22.5°	644.1	640.4	635.3	631.5	631.3	628.1	625.9	623.6	622.8	621.2	621.2
25°	614.2	611.0	605.4	602.3	600.7	599.9	596.4	593.2	591.6	590.2	591.3
27.5°	581.2	576.4	572.1	568.1	566.8	565.2	562.1	560.7	557.8	557.5	557.2
30°	543.3	538.6	534.3	532.5	529.8	528.4	526.0	524.4	523.4	523.4	522.8
32.5°	503.7	499.5	497.3	493.3	492.0	490.1	488.5	486.9	487.4	486.9	487.2
35°	460.9	459.8	455.8	453.4	453.4	453.1	450.4	449.3	448.8	449.1	450.4
37.5°	420.0	416.9	414.2	412.6	413.9	412.3	412.1	412.1	413.7	412.6	414.7
40°	376.7	376.4	375.3	375.9	376.1	374.3	374.8	375.1	376.1	378.3	378.5
42.5°	338.8	338.5	338.5	338.5	338.1	337.0	338.1	339.8	339.6	341.2	342.5
45°	302.3	301.8	302.8	302.0	303.6	304.2	303.4	303.9	305.5	306.6	308.7
47.5°	269.0	269.0	269.3	269.8	268.2	269.6	270.1	271.2	272.0	272.5	273.6
50°	238.1	238.1	237.6	237.6	237.6	238.4	237.3	238.6	238.9	241.0	242.4
52.5°	209.6	208.3	209.1	208.6	207.5	207.0	207.5	207.8	209.4	209.9	211.5
55°	182.5	182.5	180.3	179.8	180.6	180.3	180.0	180.0	180.8	181.6	183.0
57.5°	158.5	156.9	155.3	155.0	154.2	154.4	154.4	154.2	153.6	153.9	154.2
60°	135.8	134.7	132.4	132.4	132.2	131.9	130.6	130.3	128.9	129.2	128.1
62.5°	115.0	114.5	111.4	110.3	110.3	109.5	108.2	107.9	106.0	106.0	105.0
65°	96.4	94.8	92.9	91.1	91.1	90.1	89.3	86.9	85.5	84.7	83.1
67.5°	79.4	77.0	75.1	73.5	72.4	72.1	70.4	68.8	66.6	65.3	62.9
70°	62.9	61.0	59.1	57.5	56.4	55.4	53.5	51.2	49.6	47.2	45.6
72.5°	47.4	45.8	44.2	42.1	40.8	40.0	38.1	35.9	33.3	31.7	29.6
75°	34.1	32.2	30.1	28.3	27.5	26.7	24.5	22.9	21.0	19.2	17.0
77.5°	22.1	20.0	18.4	16.2	16.0	15.4	13.3	11.7	10.3	9.4	8.0
80°	11.7	10.6	9.4	8.0	7.5	6.7	5.6	4.8	4.0	3.2	2.7
82.5°	5.1	4.3	3.5	2.9	2.7	2.4	1.9	1.6	1.3	1.3	1.1
85°	1.3	1.1	1.1	0.8	0.5	0.5	0.5	0.5	0.5	0.5	0.5
87.5°	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.0	0.3	0.3	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: P857226

CATALOG NUMBER: LX4C20D010 EX4C209827 4LBLWW\*

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	709.3	709.3	709.3	709.3	709.3	709.3	709.3	709.3	709.3	709.3	709.3
2.5°	709.3	709.6	709.8	709.8	710.1	710.4	710.4	710.6	710.9	711.2	711.2
5°	708.0	708.0	708.0	708.2	708.2	708.2	708.2	708.8	708.8	709.0	709.3
7.5°	705.4	705.4	705.4	705.4	705.1	705.4	705.1	705.1	705.6	705.9	706.2
10°	701.1	700.8	700.8	700.6	700.6	700.6	700.8	701.1	701.4	701.6	702.4
12.5°	694.4	694.1	694.1	693.9	693.9	694.1	694.4	694.9	696.0	696.5	697.6
15°	683.8	683.5	683.8	684.1	684.6	685.4	686.2	686.9	688.5	689.9	691.2
17.5°	668.3	668.5	668.8	669.3	670.1	671.2	673.4	675.5	677.4	679.5	681.6
20°	647.0	648.0	648.3	650.2	650.7	653.1	655.5	658.7	661.7	664.3	667.2
22.5°	621.5	622.3	623.3	625.4	626.7	629.9	632.9	636.6	639.8	643.3	647.5
25°	592.4	592.7	595.9	595.9	599.1	601.7	605.1	609.1	614.0	618.5	621.5
27.5°	559.4	560.7	563.1	564.1	566.5	570.8	573.7	578.6	583.4	587.3	590.5
30°	524.7	525.8	529.8	530.3	532.2	535.9	539.9	544.4	548.2	552.7	555.6
32.5°	488.2	491.2	493.6	495.5	496.0	501.6	503.7	506.9	511.1	515.7	518.6
35°	452.8	454.2	457.6	458.7	460.3	463.4	467.7	470.4	472.5	475.5	479.0
37.5°	415.3	419.3	420.0	423.2	423.8	426.7	428.8	432.0	434.7	437.4	437.9
40°	380.3	381.7	384.6	385.4	385.9	390.0	392.6	393.4	394.8	397.2	400.3
42.5°	344.9	346.3	349.5	348.7	351.1	353.0	354.3	357.5	358.7	359.6	359.6
45°	310.1	310.6	312.7	313.8	315.1	316.2	318.5	320.1	320.7	323.1	323.9
47.5°	276.7	277.2	278.8	280.7	280.2	281.5	284.2	285.0	285.3	286.9	287.7
50°	244.0	245.3	247.5	246.9	248.5	249.3	251.7	252.3	252.3	252.5	252.8
52.5°	213.4	214.5	215.0	215.4	216.2	217.6	218.7	218.1	219.2	220.3	219.5
55°	183.0	183.8	185.1	185.7	185.7	185.9	185.4	187.8	186.7	186.5	186.7
57.5°	155.3	154.2	153.9	155.3	155.8	155.5	154.7	155.8	155.8	155.3	154.4
60°	128.4	127.6	127.3	127.6	126.5	125.7	126.3	125.7	124.4	123.9	124.1
62.5°	103.9	103.1	100.9	100.9	100.4	100.1	98.0	98.3	97.2	95.6	96.1
65°	81.2	79.1	78.0	77.8	75.9	74.3	73.7	71.9	70.4	70.1	70.4
67.5°	61.0	58.6	56.7	55.9	54.8	53.5	51.6	50.1	50.7	50.4	51.4
70°	42.4	40.8	38.9	37.5	38.1	36.5	35.4	35.4	35.7	35.9	36.5
72.5°	28.3	26.1	25.3	24.5	24.0	22.9	23.5	23.5	23.2	23.5	22.9
75°	16.0	14.9	14.1	13.8	13.3	13.3	13.3	13.3	13.0	12.8	12.8
77.5°	7.2	6.7	6.4	6.2	6.2	6.2	5.9	5.6	5.6	5.6	5.4
80°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
82.5°	1.1	1.1	1.3	1.3	1.3	1.1	1.3	1.3	1.1	1.1	1.3
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
87.5°	0.3	0.3	0.3	0.0	0.3	0.3	0.3	0.3	0.0	0.3	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: P857226

CATALOG NUMBER: LX4C20D010 EX4C209827 4LBLWW\*

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	709.3	709.3	709.3	709.3	709.3	709.3	709.3	709.3
2.5°	711.4	711.7	711.7	711.7	712.0	712.0	712.0	712.0
5°	709.6	709.8	709.8	709.8	710.1	710.1	710.1	710.1
7.5°	706.4	706.7	706.7	706.9	706.9	707.2	707.2	707.4
10°	702.7	703.2	703.5	703.8	704.0	704.3	704.3	704.6
12.5°	698.7	699.2	699.5	700.0	700.6	700.8	701.1	701.4
15°	692.8	693.9	694.4	694.7	695.7	696.3	696.5	696.8
17.5°	683.5	685.7	686.4	686.9	688.0	689.0	689.9	690.1
20°	670.1	672.6	673.6	675.0	676.6	677.9	678.4	679.0
22.5°	651.5	654.2	655.8	657.4	658.7	660.1	662.2	661.4
25°	624.8	629.4	631.3	632.1	635.0	636.6	637.7	636.6
27.5°	595.1	597.7	599.3	601.2	603.4	604.9	605.4	607.0
30°	559.1	563.6	563.4	565.2	567.9	569.5	570.0	571.3
32.5°	521.8	523.9	525.5	525.2	526.3	529.2	528.2	530.6
35°	482.1	482.3	485.0	484.8	486.9	486.9	486.9	488.5
37.5°	439.8	442.9	441.6	444.8	443.7	444.5	444.5	445.1
40°	401.1	402.2	402.2	403.2	404.0	403.2	403.8	405.1
42.5°	361.2	362.2	362.5	362.0	362.8	365.2	363.3	364.9
45°	323.9	324.7	325.8	325.0	326.3	325.5	326.3	325.8
47.5°	288.7	288.5	288.2	290.4	288.5	288.7	289.8	287.9
50°	252.8	254.4	253.3	254.1	254.7	254.7	253.9	253.9
52.5°	220.8	220.5	219.7	220.5	220.0	220.3	220.8	220.3
55°	187.8	188.9	188.3	188.1	188.3	188.3	189.9	187.8
57.5°	155.3	154.7	155.5	157.4	155.5	156.9	157.7	157.9
60°	124.4	124.4	126.0	125.2	126.8	128.1	129.2	128.7
62.5°	94.8	96.1	96.7	96.9	98.5	99.6	99.6	99.3
65°	70.4	72.1	72.1	73.2	73.7	73.7	74.3	75.4
67.5°	51.9	51.9	52.2	52.7	52.4	52.4	53.0	53.2
70°	36.2	35.7	36.5	36.2	36.2	35.9	36.2	36.2
72.5°	22.9	22.9	23.2	22.9	22.4	22.7	22.7	23.2
75°	12.2	12.8	12.2	12.2	12.5	11.9	12.2	12.5
77.5°	5.1	5.1	5.1	5.1	5.1	4.8	4.8	4.8
80°	2.4	2.4	2.4	2.4	2.4	2.4	2.1	2.1
82.5°	1.1	1.3	1.1	1.3	1.1	1.1	1.1	1.1
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
87.5°	0.0	0.3	0.0	0.3	0.0	0.0	0.0	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)