

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: P857055

Luminaire Tested: **LX4C15D010 EX4C159835 4LBSWNH**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P857055
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 EX4C159835 4LBSWNH
Description:
Light Source: -
Ballast/Driver: -

Summary

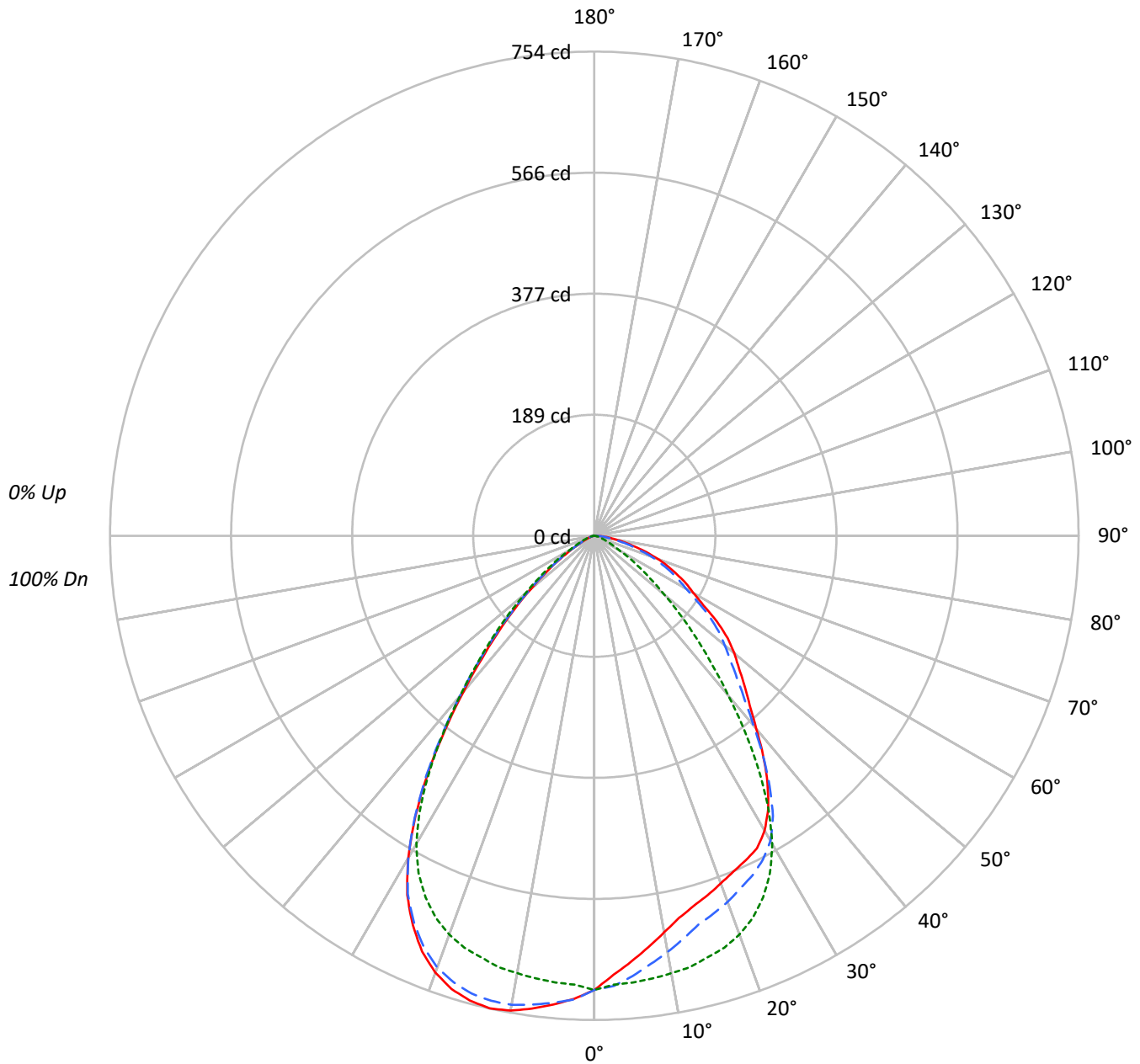
Lumens per Lamp: N/A
Luminaire Lumens: 1239.5 lumens
Efficiency: N/A
Efficacy: 78.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	86882	86882	86882
5°	82034	86092	90359
10°	78205	86276	93661
15°	75905	86462	95276
20°	75292	86379	94602
25°	75598	84247	90658
30°	75228	78590	82207
35°	70519	67114	67774
40°	62834	52025	50855
45°	57456	38796	36416
50°	54337	27159	24560
55°	49970	18356	15422
60°	43638	10737	8501
65°	41308	6889	4767
70°	37644	4885	2945
75°	31138	3465	2136
80°	24479	1981	1273
85°	21849	1269	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.8	5.4
10°-20°	191.7	15.5
20°-30°	284.1	22.9
30°-40°	284.5	23.0
40°-50°	198.9	16.0
50°-60°	118.3	9.5
60°-70°	61.8	5.0
70°-80°	27.5	2.2
80°-90°	6.0	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°	542.6	43.8
0°-40°	827.1	66.7
0°-60°	1144.3	92.3
0°-90°	1239.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1239.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	707	707	707	707	707	
5°	665	688	698	730	733	62
15°	597	627	680	738	749	169
25°	558	583	622	664	669	257
35°	470	476	448	456	452	292
45°	331	314	223	216	210	257
55°	233	219	86	75	72	207
65°	142	130	24	17	16	141
75°	66	57	7	4	4	71
85°	16	12	1	1	0	17
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°	707.2	707.2	707.2	707.2	707.2	707.2	707.2	707.2	707.2	707.2	707.2
2.5°	684.3	692.5	684.3	687.1	698.1	688.0	693.4	693.4	690.7	697.1	701.6
5°	665.2	673.4	665.2	668.8	680.7	670.7	677.0	675.2	676.1	681.6	688.0
7.5°	646.1	652.4	645.2	649.7	660.7	652.4	657.9	657.9	658.8	667.0	672.6
10°	626.9	632.4	626.9	630.6	642.4	635.2	638.8	639.6	642.4	649.7	657.9
12.5°	609.6	614.1	608.7	614.1	624.2	616.9	621.5	622.3	625.1	633.3	642.4
15°	596.8	601.4	596.0	600.5	609.6	604.2	607.8	609.6	611.5	618.7	626.9
17.5°	586.9	590.5	586.0	591.4	598.7	592.3	597.8	597.8	600.5	607.8	616.9
20°	575.9	579.5	575.9	580.4	588.6	583.2	587.7	587.7	590.5	598.7	606.9
22.5°	565.9	567.7	565.9	569.6	577.7	573.2	575.9	576.8	579.5	586.9	594.2
25°	557.7	561.4	559.5	563.1	568.6	564.0	566.8	567.7	570.4	576.8	583.2
27.5°	548.6	550.4	548.6	553.1	557.7	554.0	556.8	555.8	557.7	563.1	568.6
30°	530.3	532.2	532.2	534.9	538.5	536.7	539.4	536.7	538.5	543.1	548.6
32.5°	503.9	504.8	505.7	508.5	511.2	508.5	510.3	510.3	510.3	513.9	517.6
35°	470.2	472.0	471.1	473.0	475.7	474.8	474.8	473.9	472.0	473.9	475.7
37.5°	432.0	429.2	429.2	432.0	433.7	430.1	432.0	430.1	430.1	431.0	431.0
40°	391.8	389.1	391.8	392.7	393.6	391.8	390.9	389.1	386.4	387.3	385.5
42.5°	358.1	356.3	357.2	357.2	358.1	356.3	357.2	353.6	350.8	349.0	346.3
45°	330.7	328.1	330.7	329.0	329.0	328.1	327.1	325.3	321.7	319.0	314.3
47.5°	305.2	305.2	306.1	306.1	306.1	304.4	304.4	300.7	297.0	293.4	287.1
50°	284.3	282.5	286.2	286.2	283.4	282.5	283.4	278.8	276.1	271.5	265.1
52.5°	261.5	261.5	262.4	262.4	261.5	259.7	260.7	257.0	254.2	249.7	243.3
55°	233.3	231.5	234.2	234.2	233.3	232.4	233.3	230.5	227.8	224.2	218.7
57.5°	201.4	200.5	202.2	203.2	201.4	201.4	202.2	199.6	198.7	195.0	189.5
60°	177.6	176.7	178.6	179.5	177.6	177.6	177.6	174.1	172.2	168.5	164.9
62.5°	161.3	160.4	162.2	161.3	160.4	159.4	160.4	156.8	154.9	151.2	147.7
65°	142.1	143.0	144.0	144.0	143.0	142.1	142.1	140.4	138.5	134.9	130.3
67.5°	124.0	124.0	124.8	125.7	124.8	124.8	124.8	122.1	120.3	117.5	112.1
70°	104.8	103.9	106.7	106.7	104.8	105.7	104.8	103.9	102.0	98.4	93.9
72.5°	84.7	84.7	85.7	85.7	84.7	84.7	84.7	83.8	81.1	79.3	74.7
75°	65.6	65.6	66.5	67.4	65.6	65.6	66.5	64.7	62.9	60.2	57.4
77.5°	49.2	48.3	49.2	49.2	48.3	48.3	48.3	47.4	46.5	43.7	41.0
80°	34.6	33.7	34.6	34.6	34.6	33.7	33.7	32.8	32.8	30.9	28.3
82.5°	23.7	22.8	23.7	23.7	23.7	22.8	22.8	22.8	21.8	21.0	19.2
85°	15.5	14.5	14.5	15.5	14.5	14.5	14.5	14.5	13.6	12.8	11.9
87.5°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	6.4	6.4	6.4	5.4
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°	707.2	707.2	707.2	707.2	707.2	707.2	707.2	707.2	707.2	707.2	707.2
2.5°	698.1	696.2	701.6	699.8	700.7	696.2	703.5	699.8	704.4	699.8	708.9
5°	686.2	684.3	692.5	691.6	692.5	688.9	697.1	696.2	701.6	698.1	708.0
7.5°	673.4	671.6	680.7	681.6	683.4	679.8	690.7	690.7	696.2	695.3	706.2
10°	658.8	659.7	668.8	670.7	674.3	672.6	682.5	685.3	692.5	691.6	705.3
12.5°	645.2	645.2	657.0	660.7	663.4	662.5	674.3	678.0	686.2	688.0	700.7
15°	631.5	632.4	643.3	648.8	652.4	651.5	664.3	668.8	678.9	679.8	695.3
17.5°	620.6	619.7	631.5	636.1	641.5	640.6	654.3	659.7	669.8	672.6	687.1
20°	611.5	610.6	621.5	626.9	630.6	629.7	643.3	649.7	658.8	660.7	675.2
22.5°	600.5	598.7	609.6	614.1	617.8	616.9	628.8	633.3	642.4	644.3	657.9
25°	587.7	586.0	596.0	598.7	601.4	599.6	609.6	612.4	619.7	621.5	635.2
27.5°	573.2	568.6	576.8	576.8	578.7	575.9	583.2	586.0	592.3	592.3	605.0
30°	550.4	544.1	548.6	547.7	548.6	544.9	549.5	550.4	554.9	554.0	563.1
32.5°	518.5	509.4	512.1	509.4	506.7	501.2	506.7	504.8	508.5	504.8	513.0
35°	474.8	465.7	464.7	461.1	458.4	453.8	453.8	449.3	450.2	447.5	452.9
37.5°	427.3	415.6	413.7	406.5	401.8	396.4	396.4	392.7	388.2	386.4	390.9
40°	380.9	368.1	363.6	351.7	347.2	341.7	338.1	333.5	331.7	324.4	328.1
42.5°	340.8	327.1	317.1	304.4	299.8	291.6	286.2	280.6	278.0	269.8	273.4
45°	307.1	290.7	279.7	263.3	257.0	247.9	239.6	233.3	226.9	223.3	221.4
47.5°	278.8	261.5	246.9	228.7	218.7	210.5	199.6	193.2	185.0	180.4	177.6
50°	255.1	236.0	219.6	198.7	188.6	179.5	166.8	156.8	149.5	142.1	140.4
52.5°	234.2	214.1	195.9	172.2	160.4	149.5	135.8	124.8	118.4	110.3	109.3
55°	209.6	192.3	172.2	147.7	135.8	124.8	110.3	99.3	91.1	85.7	83.8
57.5°	183.2	166.8	147.7	123.1	111.2	99.3	85.7	75.6	68.3	63.8	62.9
60°	158.6	143.0	124.8	100.2	88.4	78.4	63.8	53.8	47.4	43.7	41.9
62.5°	140.4	125.7	108.4	85.7	74.7	64.7	51.0	41.9	36.5	32.8	30.9
65°	123.1	108.4	92.9	72.0	62.9	53.8	41.0	32.8	27.3	23.7	21.8
67.5°	104.8	92.0	77.4	60.2	51.0	43.7	32.8	25.5	21.0	18.2	16.4
70°	86.6	74.7	62.9	48.3	41.9	34.6	25.5	20.1	15.5	13.6	11.9
72.5°	68.3	59.2	49.2	37.4	31.9	27.3	20.1	14.5	11.9	10.1	8.2
75°	51.0	44.7	36.5	28.3	23.7	20.1	14.5	11.0	9.1	7.3	6.4
77.5°	36.5	30.9	25.5	19.2	17.3	14.5	10.1	8.2	6.4	4.5	3.7
80°	24.6	21.8	17.3	13.6	11.0	10.1	7.3	5.4	3.7	2.8	2.8
82.5°	16.4	13.6	11.0	8.2	7.3	6.4	4.5	3.7	2.8	1.8	1.8
85°	10.1	8.2	6.4	4.5	4.5	3.7	2.8	1.8	0.9	0.9	0.9
87.5°	4.5	3.7	2.8	1.8	1.8	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	707.2	707.2	707.2	707.2	707.2	707.2	707.2	707.2	707.2	707.2	707.2
2.5°	716.2	710.8	707.2	711.7	713.5	710.8	713.5	718.0	722.7	723.6	710.8
5°	717.1	711.7	709.8	715.3	716.2	715.3	718.0	724.5	729.9	731.8	719.0
7.5°	717.1	713.5	712.6	719.0	719.9	719.0	723.6	730.8	736.3	739.9	727.1
10°	715.3	713.5	714.4	719.9	721.7	721.7	728.1	736.3	741.8	745.4	732.7
12.5°	712.6	712.6	712.6	719.0	720.8	721.7	727.1	738.1	741.8	747.2	734.4
15°	708.0	708.0	708.0	714.4	717.1	717.1	723.6	733.5	738.1	743.5	730.8
17.5°	699.8	699.8	700.7	706.2	708.9	708.9	715.3	726.2	729.0	735.4	722.7
20°	688.0	688.0	688.9	694.4	697.1	695.3	703.5	712.6	715.3	720.8	708.0
22.5°	670.7	670.7	670.7	676.1	678.0	677.0	685.3	693.4	693.4	700.7	687.1
25°	645.2	647.0	645.2	650.6	652.4	651.5	658.8	666.1	664.3	672.6	658.8
27.5°	614.1	613.3	613.3	617.8	617.8	616.9	622.3	630.6	628.8	634.2	621.5
30°	571.3	574.1	569.6	575.9	573.2	571.3	575.0	582.3	579.5	584.1	574.1
32.5°	522.1	518.5	518.5	518.5	520.3	515.8	519.4	523.1	520.3	524.9	513.9
35°	457.5	458.4	455.6	456.6	457.5	451.9	455.6	459.2	455.6	458.4	448.4
37.5°	392.7	393.6	387.3	390.9	387.3	385.5	389.1	390.9	387.3	390.0	379.1
40°	328.1	326.2	325.3	325.3	326.2	321.7	324.4	327.1	324.4	326.2	316.2
42.5°	271.5	270.6	268.9	269.8	267.0	266.1	267.0	269.8	267.0	268.9	261.5
45°	222.3	220.5	217.8	218.7	218.7	214.1	216.9	218.7	216.0	216.9	210.5
47.5°	176.7	174.1	174.1	173.2	173.2	171.3	174.1	173.2	170.4	172.2	165.9
50°	137.6	135.8	135.8	135.8	135.8	133.0	133.9	135.8	133.0	133.0	129.4
52.5°	107.5	104.8	103.0	103.0	103.0	102.0	102.0	103.0	100.2	100.2	99.3
55°	81.1	80.2	77.4	77.4	77.4	74.7	75.6	75.6	74.7	74.7	72.0
57.5°	60.2	57.4	55.6	55.6	53.8	53.8	52.9	53.8	51.9	51.9	50.1
60°	40.0	38.3	37.4	36.5	36.5	35.6	36.5	35.6	35.6	34.6	33.7
62.5°	29.2	27.3	25.5	25.5	25.5	24.6	24.6	24.6	24.6	24.6	23.7
65°	21.0	19.2	19.2	18.2	18.2	17.3	17.3	17.3	17.3	17.3	16.4
67.5°	14.5	13.6	12.8	12.8	12.8	12.8	12.8	12.8	11.9	11.9	11.9
70°	11.0	10.1	9.1	9.1	9.1	9.1	9.1	8.2	9.1	9.1	8.2
72.5°	7.3	7.3	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
75°	5.4	5.4	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
77.5°	3.7	3.7	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
80°	2.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
82.5°	1.8	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: P857055

CATALOG NUMBER: LX4C15D010 EX4C159835 4LBSWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	707.2	707.2	707.2	707.2	707.2	707.2	707.2	707.2
2.5°	724.5	723.6	721.7	724.5	717.1	714.4	713.5	721.7
5°	734.4	732.7	732.7	735.4	727.1	725.3	723.6	732.7
7.5°	743.5	741.8	741.8	744.5	737.2	735.4	733.5	742.6
10°	749.1	749.1	749.1	750.8	744.5	742.6	741.8	750.8
12.5°	751.7	751.7	750.8	754.5	746.3	746.3	744.5	753.6
15°	748.2	748.2	748.2	750.8	743.5	741.8	741.8	749.1
17.5°	739.0	739.0	738.1	740.9	732.7	732.7	731.8	739.9
20°	725.3	725.3	723.6	727.1	719.0	716.2	715.3	723.6
22.5°	703.5	702.5	701.6	703.5	696.2	694.4	693.4	700.7
25°	675.2	674.3	672.6	674.3	666.1	663.4	663.4	668.8
27.5°	635.2	635.2	632.4	635.2	626.0	625.1	624.2	630.6
30°	586.0	582.3	580.4	584.1	575.0	575.0	573.2	579.5
32.5°	524.9	521.2	520.3	522.1	513.9	511.2	514.8	518.5
35°	454.7	455.6	451.9	451.9	444.7	445.6	446.5	451.9
37.5°	387.3	385.5	384.5	385.5	380.0	378.2	376.3	381.8
40°	324.4	319.9	319.0	319.0	314.3	313.4	314.3	317.1
42.5°	265.1	264.2	260.7	262.4	257.9	259.7	258.8	258.8
45°	214.1	215.0	211.4	214.1	210.5	207.8	207.8	209.6
47.5°	169.5	169.5	168.5	168.5	165.9	166.8	164.9	167.6
50°	131.2	131.2	129.4	130.3	128.5	128.5	127.5	128.5
52.5°	100.2	99.3	99.3	98.4	96.6	97.6	98.4	96.6
55°	72.9	73.8	72.0	72.9	71.1	72.0	71.1	72.0
57.5°	50.1	51.0	49.2	51.0	49.2	50.1	49.2	49.2
60°	34.6	34.6	33.7	34.6	33.7	33.7	32.8	34.6
62.5°	23.7	23.7	23.7	23.7	23.7	22.8	23.7	23.7
65°	17.3	16.4	16.4	16.4	16.4	16.4	16.4	16.4
67.5°	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
70°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
72.5°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
75°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
77.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
80°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
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)