

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: FAIL-SAFE

Report Number: P735592

Luminaire Tested: **4APN6-24-B2750-W2D-CP125-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P735592
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P709119)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 4APN6-24-B2750-W2D-CP125-5000K
Description: 4FT 2400 AMBIENT LUMEN OUTPUT APN WITH BIO UP LEDS AT 5000K CCT, AND CP125 LENS

Light Source: -
Ballast/Driver: -

Summary

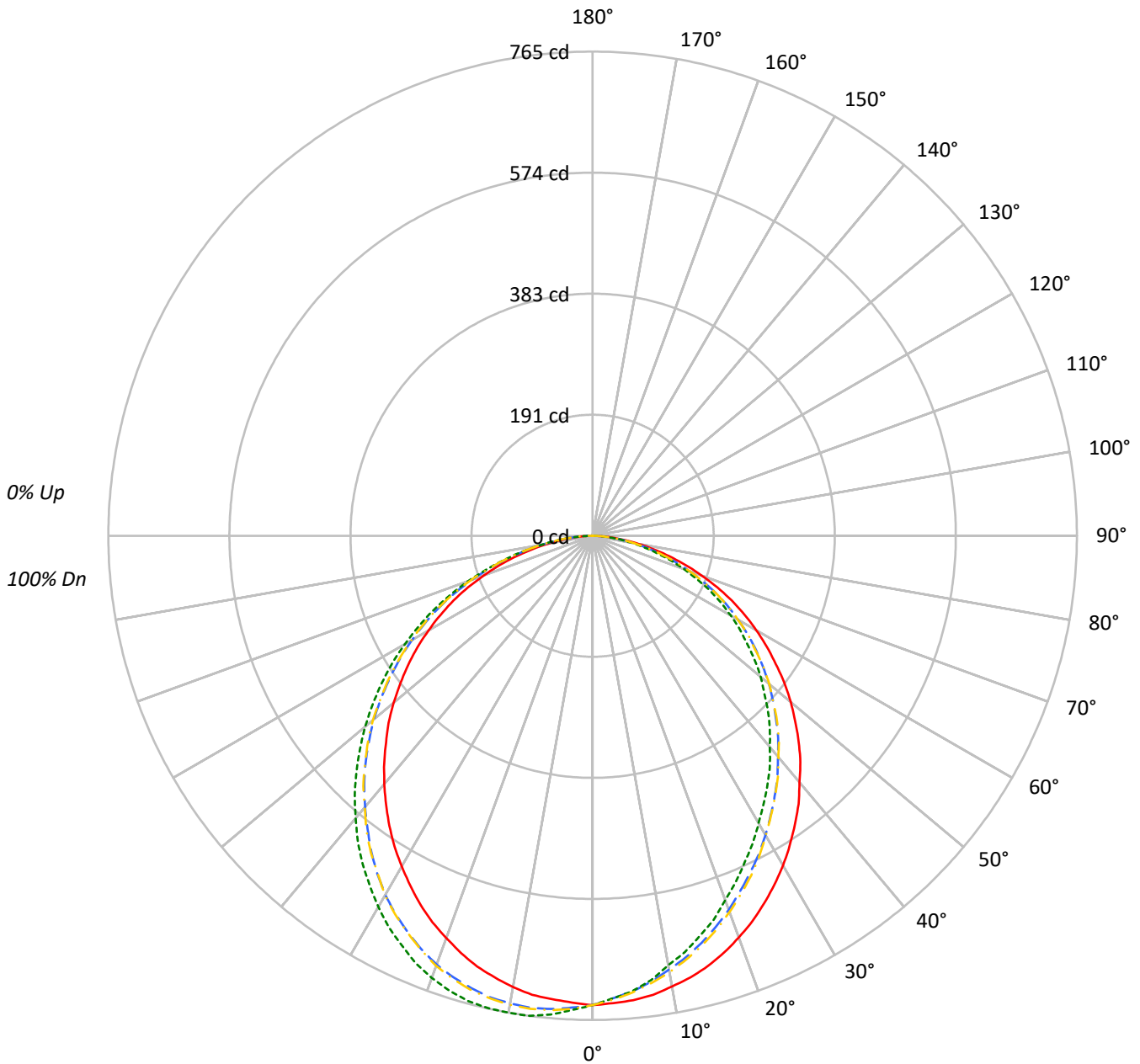
Lumens per Lamp: N/A
Luminaire Lumens: 1989.0 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 23.8
Input Voltage (V): NR
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	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84																			
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	70																			
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59																			
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51																			
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44																			
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	41	38																			
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34																			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30																			
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27																			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6842	6842	6842	6842
5°	6822	6690	6806	7032
10°	6774	6453	6783	7168
15°	6723	6251	6732	7268
20°	6631	6014	6639	7298
25°	6524	5790	6550	7267
30°	6408	5587	6426	7212
35°	6274	5423	6302	7134
40°	6123	5244	6164	7012
45°	6009	5112	6020	6885
50°	5865	4973	5888	6730
55°	5681	4790	5722	6545
60°	5510	4644	5526	6316
65°	5292	4451	5292	6045
70°	4934	4119	4912	5633
75°	4484	3739	4427	5055
80°	3879	3209	3746	4325
85°	3028	2403	2848	3557



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.1	3.5
10°-20°	198.9	10.0
20°-30°	295.7	14.9
30°-40°	348.5	17.5
40°-50°	354.8	17.8
50°-60°	316.1	15.9
60°-70°	238.1	12.0
70°-80°	132.4	6.7
80°-90°	34.4	1.7
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°	564.6	28.4
0°-40°	913.1	45.9
0°-60°	1584.0	79.6
0°-90°	1989.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1989.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	742	742	742	742	742	
5°	737	722	735	759	737	70
15°	704	654	705	761	704	198
25°	641	569	643	714	641	295
35°	557	482	560	633	557	348
45°	460	392	461	528	460	355
55°	353	298	356	407	353	316
65°	242	204	242	277	242	239
75°	126	105	124	142	126	134
85°	29	23	27	34	29	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	741.6	741.6	741.6	741.6	741.6	741.6	741.6	741.6	741.6	741.6	741.6
2.5°	739.1	739.1	739.9	736.6	732.4	730.7	729.9	729.0	730.7	731.5	730.7
5°	736.6	734.9	733.2	729.0	724.0	720.6	718.9	718.1	719.8	722.3	719.8
7.5°	731.5	728.2	724.8	718.9	713.1	708.0	705.6	703.9	705.6	708.0	706.4
10°	723.1	718.9	713.9	707.3	698.9	693.0	690.5	688.0	688.8	688.8	688.8
12.5°	714.7	708.9	703.1	694.7	685.4	678.7	674.5	671.2	672.8	673.7	673.7
15°	703.9	696.4	688.0	678.7	669.5	661.9	656.9	653.5	654.4	654.4	655.2
17.5°	690.5	682.1	673.7	662.8	651.8	643.4	637.6	633.4	635.0	635.9	636.7
20°	675.4	666.1	656.9	645.1	633.4	624.2	618.3	613.3	612.5	612.5	613.3
22.5°	659.4	649.3	638.4	625.8	613.3	603.2	597.3	592.3	591.5	591.5	592.3
25°	640.9	630.0	619.2	606.6	593.1	583.1	575.5	570.5	569.6	568.8	570.5
27.5°	621.7	610.8	599.9	587.3	573.0	562.9	555.3	550.3	548.6	547.8	549.5
30°	601.5	588.9	577.2	563.7	551.1	541.1	533.6	527.7	526.1	524.4	526.1
32.5°	579.7	567.1	554.5	541.1	528.6	518.5	510.9	505.1	503.4	502.5	504.2
35°	557.0	544.4	532.8	519.3	506.7	496.7	489.1	484.1	482.4	481.5	482.4
37.5°	534.4	521.9	510.1	496.7	484.1	474.0	466.4	461.4	460.5	459.7	460.5
40°	508.4	497.5	485.7	473.1	460.5	450.6	444.7	438.8	437.1	435.4	438.0
42.5°	485.7	474.8	463.1	451.4	438.8	428.7	422.0	417.0	415.3	414.4	415.3
45°	460.5	448.9	437.1	426.2	414.4	405.2	398.5	393.4	392.6	391.8	392.6
47.5°	433.8	423.7	413.6	402.7	390.9	381.7	375.8	370.9	369.2	367.5	369.2
50°	408.6	398.5	388.4	378.3	367.5	359.1	353.2	348.2	347.3	346.5	347.3
52.5°	381.7	371.7	362.5	352.4	343.1	334.7	328.9	324.7	323.8	323.0	323.8
55°	353.2	344.8	336.4	328.0	318.8	311.2	306.2	301.1	299.5	297.8	299.5
57.5°	326.3	318.8	310.4	302.0	293.6	287.0	281.9	277.7	276.9	276.0	276.9
60°	298.6	291.9	284.4	276.9	268.5	261.8	257.6	254.2	252.5	251.7	252.5
62.5°	271.0	264.3	258.4	250.8	243.3	238.2	234.0	230.7	229.0	228.2	229.0
65°	242.4	236.6	230.7	224.0	218.1	213.0	208.8	205.6	204.7	203.9	203.9
67.5°	213.0	208.1	203.1	197.2	190.5	185.4	181.2	178.7	177.9	177.0	177.9
70°	182.9	178.7	173.7	168.6	163.6	159.4	156.9	154.4	153.5	152.7	152.7
72.5°	154.4	151.0	146.8	142.6	138.4	134.2	131.7	130.0	129.2	128.3	128.3
75°	125.8	122.5	120.0	116.7	112.5	109.9	107.4	105.7	104.9	104.9	104.9
77.5°	99.0	96.5	94.0	90.6	88.1	85.6	83.9	83.1	82.2	82.2	82.2
80°	73.0	71.3	69.6	67.9	65.4	62.9	62.1	61.2	60.4	60.4	60.4
82.5°	49.5	48.6	46.9	45.3	43.6	42.7	41.9	41.2	41.2	41.2	41.2
85°	28.6	27.7	26.9	26.0	25.2	25.2	24.4	23.5	22.7	22.7	22.7
87.5°	11.8	11.8	11.8	10.9	10.1	10.1	10.1	10.1	10.1	10.1	10.1
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):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	741.6	741.6	741.6	741.6	741.6	741.6	741.6	741.6	741.6	741.6	741.6
2.5°	729.0	730.7	732.4	734.9	737.4	739.9	739.1	738.3	741.6	745.8	746.7
5°	718.1	719.8	722.3	726.5	730.7	734.1	734.9	734.9	741.6	747.5	749.2
7.5°	704.8	707.3	710.5	714.7	720.6	725.7	728.2	731.5	738.3	745.8	749.2
10°	688.0	692.2	697.2	703.1	708.9	714.7	719.8	724.0	732.4	740.8	745.8
12.5°	672.8	677.0	682.1	688.8	696.4	703.9	708.9	714.7	724.8	734.9	740.8
15°	656.0	660.2	666.1	672.8	681.2	689.6	697.2	704.8	714.7	725.7	732.4
17.5°	637.6	641.8	647.6	656.0	665.3	674.5	682.9	691.3	703.1	714.7	722.3
20°	615.0	620.9	628.3	636.7	647.6	658.6	667.0	676.2	688.8	701.4	709.7
22.5°	593.1	599.0	607.4	617.5	629.2	640.9	651.0	661.1	674.5	687.1	696.4
25°	572.1	578.9	587.3	597.3	608.3	620.0	631.7	643.4	656.9	670.3	679.6
27.5°	551.1	557.0	565.4	575.5	588.1	599.9	611.6	623.4	637.6	651.8	661.9
30°	527.7	534.4	541.9	552.0	565.4	578.9	590.6	603.2	617.5	631.7	641.8
32.5°	505.9	511.8	519.3	529.4	542.7	556.2	568.8	582.2	595.7	609.9	620.0
35°	484.1	489.9	497.5	507.6	521.0	534.4	546.9	559.5	573.0	586.4	596.5
37.5°	462.2	468.1	475.7	485.7	498.3	511.8	523.5	536.1	549.5	562.9	572.1
40°	439.6	445.5	451.4	461.4	474.0	487.4	499.2	511.8	525.2	538.6	547.8
42.5°	417.0	422.8	430.4	440.5	452.2	463.9	475.7	487.4	500.0	512.6	521.9
45°	394.3	399.3	406.9	416.1	427.9	438.8	450.6	461.4	474.0	485.7	495.0
47.5°	370.9	375.8	381.7	390.9	402.7	414.4	426.2	437.1	448.0	459.7	468.1
50°	348.2	353.2	359.9	368.3	379.2	390.1	400.2	410.2	421.2	432.1	439.6
52.5°	324.7	329.7	335.6	344.0	353.2	363.3	372.5	382.5	392.6	402.7	410.2
55°	301.1	304.5	309.5	317.1	327.2	337.3	346.5	355.7	365.0	373.4	380.8
57.5°	277.7	281.9	287.8	294.4	302.8	311.2	319.6	328.0	336.4	344.8	351.5
60°	254.2	257.6	261.8	267.6	276.0	283.6	291.9	299.5	307.0	314.6	320.5
62.5°	229.8	233.2	237.4	243.3	250.0	256.7	264.3	271.0	277.7	284.4	290.3
65°	204.7	208.1	212.2	217.2	223.1	229.0	235.7	242.4	247.5	252.5	258.4
67.5°	178.7	182.1	186.3	190.5	195.5	201.4	207.3	213.0	218.1	223.1	227.3
70°	153.5	156.0	160.2	163.6	167.8	172.0	177.0	182.1	185.4	189.6	194.7
72.5°	129.2	131.7	135.0	138.4	140.9	144.3	149.3	153.5	157.7	162.8	165.3
75°	105.7	107.4	109.9	112.5	115.0	117.5	120.9	124.2	127.5	130.0	133.4
77.5°	82.2	83.9	86.4	88.1	89.8	91.5	94.0	96.5	99.0	100.7	104.1
80°	60.4	62.1	63.7	65.4	67.1	68.8	69.6	70.5	73.8	76.3	78.0
82.5°	41.2	41.9	42.7	44.4	45.3	46.1	46.9	46.9	48.6	50.3	52.8
85°	23.5	24.4	25.2	25.2	25.2	25.2	26.0	26.9	27.7	29.4	31.1
87.5°	9.2	9.2	10.1	10.1	10.1	10.1	10.1	10.1	10.9	12.6	13.4
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):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	741.6	741.6	741.6	741.6	741.6	741.6	741.6	741.6	741.6	741.6	741.6
2.5°	745.8	746.7	748.3	749.2	750.0	750.0	750.9	751.7	750.0	748.3	747.5
5°	750.0	750.9	753.4	755.9	757.6	759.3	758.4	757.6	755.9	753.4	751.7
7.5°	750.9	753.4	755.9	759.3	761.8	765.1	763.5	761.8	758.4	755.1	752.5
10°	748.3	751.7	755.9	760.1	762.6	765.1	763.5	761.8	758.4	754.2	750.9
12.5°	745.0	749.2	754.2	758.4	760.9	764.3	761.8	759.3	755.1	750.9	746.7
15°	737.4	742.5	748.3	753.4	757.6	760.9	758.4	756.7	751.7	745.8	739.9
17.5°	728.2	734.9	740.8	746.7	750.0	753.4	751.7	750.0	744.1	737.4	730.7
20°	717.3	724.0	729.9	735.7	739.9	743.3	740.8	738.3	732.4	726.5	719.8
22.5°	703.9	710.5	717.3	723.1	727.3	730.7	727.3	723.1	717.3	711.4	704.8
25°	687.1	694.7	702.2	708.0	710.5	713.9	710.5	707.3	701.4	695.5	688.0
27.5°	670.3	677.9	685.4	691.3	693.8	697.2	693.8	690.5	684.6	678.7	671.2
30°	651.0	658.6	666.1	672.0	674.5	677.0	673.7	670.3	665.3	659.4	651.8
32.5°	629.2	636.7	642.6	648.5	651.8	655.2	651.8	649.3	643.4	635.9	628.3
35°	605.7	613.3	620.9	626.6	630.0	633.4	629.2	625.0	620.0	614.1	607.4
37.5°	579.7	588.1	596.5	603.2	605.7	609.1	605.7	601.5	596.5	590.6	583.1
40°	555.3	562.9	570.5	577.2	579.7	582.2	578.9	575.5	569.6	563.7	556.2
42.5°	530.3	537.8	544.4	550.3	552.8	556.2	552.8	548.6	544.4	539.5	532.8
45°	503.4	510.9	516.8	522.7	525.2	527.7	524.4	520.2	516.0	511.8	505.1
47.5°	475.7	482.4	488.3	494.1	495.8	498.3	495.0	492.5	488.3	484.1	478.2
50°	447.2	453.9	459.7	464.7	466.4	468.9	465.6	462.2	458.9	455.6	450.6
52.5°	417.8	423.7	429.6	434.6	436.3	438.0	434.6	431.2	427.9	424.5	419.5
55°	387.6	393.4	399.3	403.5	405.2	406.9	403.5	401.0	397.6	395.1	390.1
57.5°	357.4	363.3	368.3	372.5	374.2	375.8	372.5	369.2	366.7	364.1	359.9
60°	326.3	332.2	336.4	339.8	341.5	342.3	338.9	336.4	334.7	333.1	328.9
62.5°	296.1	300.3	304.5	307.0	308.7	309.5	307.0	305.3	303.7	302.0	298.6
65°	264.3	269.3	272.7	275.2	276.0	276.9	274.4	272.7	271.0	269.3	266.8
67.5°	232.4	236.6	239.1	241.6	242.4	242.4	242.4	241.6	239.9	237.4	234.9
70°	200.5	203.9	206.4	208.1	208.8	208.8	207.3	205.6	205.6	204.7	203.1
72.5°	167.8	170.3	172.0	173.7	173.7	173.7	173.7	174.5	173.7	172.0	169.5
75°	136.7	139.2	140.9	141.8	141.8	141.8	141.8	142.6	141.8	140.9	139.2
77.5°	107.4	109.1	109.9	110.8	110.8	110.8	111.6	112.5	111.6	110.8	109.9
80°	79.7	80.5	81.4	82.2	81.4	81.4	82.2	83.9	83.1	82.2	81.4
82.5°	54.5	55.3	56.2	56.2	57.0	57.9	57.9	57.9	57.9	57.0	56.2
85°	32.8	33.6	33.6	33.6	33.6	33.6	34.4	35.3	35.3	34.4	34.4
87.5°	15.1	16.0	15.1	14.3	13.4	13.4	15.1	16.8	16.8	16.0	16.0
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):

	330°	340°	350°	360°
0°	741.6	741.6	741.6	741.6
2.5°	748.3	747.5	743.3	739.1
5°	750.9	748.3	742.5	736.6
7.5°	750.9	747.5	739.1	731.5
10°	746.7	741.6	732.4	723.1
12.5°	741.6	735.7	724.8	714.7
15°	734.1	727.3	715.6	703.9
17.5°	723.1	714.7	703.1	690.5
20°	712.2	703.1	688.8	675.4
22.5°	697.2	688.8	673.7	659.4
25°	680.4	671.2	656.0	640.9
27.5°	662.8	651.8	636.7	621.7
30°	642.6	631.7	616.7	601.5
32.5°	620.9	610.8	595.7	579.7
35°	599.0	588.1	573.0	557.0
37.5°	574.7	564.6	549.5	534.4
40°	548.6	538.6	523.5	508.4
42.5°	524.4	515.1	500.0	485.7
45°	497.5	488.3	474.0	460.5
47.5°	469.8	460.5	447.2	433.8
50°	443.0	433.8	421.2	408.6
52.5°	412.8	405.2	393.4	381.7
55°	383.4	375.8	364.1	353.2
57.5°	354.1	347.3	336.4	326.3
60°	323.0	316.3	307.9	298.6
62.5°	293.6	287.8	279.4	271.0
65°	262.6	257.6	250.0	242.4
67.5°	230.7	226.5	219.8	213.0
70°	198.9	193.8	188.8	182.9
72.5°	167.0	164.4	159.4	154.4
75°	136.7	134.2	130.0	125.8
77.5°	108.3	105.7	102.4	99.0
80°	79.7	78.0	75.5	73.0
82.5°	55.3	53.7	52.0	49.5
85°	33.6	31.9	30.2	28.6
87.5°	15.1	14.3	12.6	11.8
90°	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270° - · - · 135°-315°













(END OF REPORT)